DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

JANUARY - 2011

1 **SALIENT FEATURES OF DELHI POWER SYSTEM**

Sr. No.	Features	JAN 2010	JAN 2011
1	**Effective Generation Capacity within Delhi in MW**		
	Rajghat Power House	135	135
	Gas Turbine	270	270
	Pragati Power Corporation Ltd.	330	330
	Rithala	73	73
	Badapur Thermal Power Station	705	705
	Total	1513	1513
2	**Maximum Unrestricted Demand (MW)**	**3678**	**4114**
	Date	14.01.2010	10.01.2011
	Time	09.40.00	10.31.41
3	**Peak Demand met (MW)**	**3678**	**4111**
	Date	14.01.2010	10.01.2011
	Time	09.40.00	10.31.41
4	Peak Availability (MW)	3357	3936
5	Shortage (-) / Surplus (+) in MW	(-)321	(-)175
6	Percentage Shortage (-) / Surplus (+)	(-)8.73	(-)4.30
7	Maximum Energy Consume in a day (Mus)	61.704	67.059
8	Energy Consumed during the month	**1762.338**	**1839.595**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.216	0.000
ii)	Manual Load shedding from DTL S/Stns.	0.000	0.000
iii)	Load Shedding due to low frequency / Low Voltage / TTC/ATC Violation		
	NDPL	0.130	0.988
	BRPL	0.146	0.854
	BYPL	0.219	0.131
	NDMC	0.000	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	6.149	0.070
	Total due to Grid Restriction	**6.860**	2.043
B)	Due to Constraints in System in Mus		
	DTL	0.463	0.337
	NDPL	4.599	0.249
	BRPL	0.508	0.422
	BYPL	0.345	0.580
	NDMC	0.000	0.001
	MES	0.000	0.000
	Other Agencies	0.071	0.001
	Total	**5.986**	**1.590**
11	**Grand Total in Mus**	**12.846**	**3.633**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING JAN 2011

A) For the month of January 2011

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	92.356	10.510	81.846	91.55	--
2.	**GT**	131.597	4.213	127.384	87.73	44.581
3.	**PPCL**	225.404	5.492	219.912	99.45	20.5515
4.	**BTPS**	422.8854	46.5174	376.368	91.53	53.1742
5.	**Rithala**	16.827	0.335	16.492	--	--
	TOTAL	**889.0694**	**67.0674**	**822.002**	**370.26**	**118.3067**

B) For the Year 2010-11 (Upto January 2011)

Power Station	Effective Capacity (MW)	Net Generation in MUs For Jan 2011	Availability (%) For Jan 2011	PLF (%) For Jan 2011	Cumulative Generation in MUs upto Jan 2011 for the year 2010-11	Cumulative Availability in % upto Jan 2011 for the year 2010-11	Cumulative PLF in % upto Jan 2011 for the year 2010-11
RPH	135	81.84600	91.55	91.55	627.74800	75.14	64.38
GT	270	127.38400	87.73	64.85	1148.27700	83.88	58.97
PPCL	330	219.91200	99.45	90.82	2071.17900	89.95	85.15
BTPS	705	376.36800	91.53	80.14	**3417.90615**	88.74	72.28
Rithala	**73**	16.49200	--	--	**56.09900**	--	--
TOTAL	**1513**	**822.00200**			**7321.20915**		

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2010

(A) RPH STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	02.04.10	01.00	02.04.10	01.43	Boiler drum level low
		02.04.10	14.50	02.04.10	16.27	Tripped alongwtih trippings of associated transmission lines.
		11.04.10	22.13	11.04.10	23.08	Electrical Problem
		17.04.10	00.56	26.06.10	11.53	Planned shut-down for over-hauling of generator.
		26.06.10	12.56	26.06.10	14.25	Furnace pressure very low.
		27.06.10	14.28	05.07.10	00.50	Drum level low.
		10.07.10	15.45	10.07.10	20.02	Due to power loss.
		12.07.10	20.05	13.07.10	06.06	Turbine trip
		13.07.10	12.02	13.07.10	13.41	Flame failure
		13.07.10	18.33	13.07.10	20.21	Tripped along wtih trippings of associated transmission lines.
		15.07.10	10.39	19.07.10	13.14	Auxiliary transformer tripped.
		24.07.10	20.23	26.07.10	09.58	Boiler Tube Leakage
		31.07.10	12.25	31.07.10	14.07	Boiler trip.
		01.08.10	07.30	03.08.10	05.25	Furnace pressure very low.
		03.08.10	16.04	03.08.10	17.50	Loss of oil fuels
		08.08.10	07.28	08.08.10	08.10	Flame failure
		22.08.10	00.03	23.08.10	15.28	Flame failure
		25.08.10	03.00	29.08.10	08.25	Ash formed in coal bunker
		30.08.10	11.00	30.08.10	11.02	Flame failure
		09.09.10	20.45	02.09.10	21.10	Boiler tripped
		04.09.10	02.15	04.09.10	10.23	Due to tripping of bus bar
		05.09.10	18.07	07.09.10	02.47	Reserve shut-down
		08.09.10	13.09	08.09.10	22.42	Flame failure
		09.09.10	09.40	09.09.10	11.10	Drum level low
		16.09.10	04.02	18.10.10	06.47	Failure of boiler and due to Commonwealth Games.
		21.10.10	13:05	21.10.10	13:48	Flame failure
		21.10.10	19.57	22.10.10	13.32	Boiler drum trip
		23.10.10	21.40	26.10.10	01.44	No coal flow
		26.10.10	00.24	27.10.10	02.22	Boiler drum trip
		05.11.10	08.44	08.11.10	04.02	Boiler Tube Leakage
		17.11.10	13.13	20.11.10	17.00	Boiler Tube Leakage
		03.12.10	23.19	08.12.10	23.42	Boiler Tube Leakage
		08.12.10	23.50	13.12.10	04.40	Boiler Tube Leakage
		28.12.10	14.02	29.12.10	19.52	Boiler Tube Leakage

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	**67.5**	02.04.10	14.55	02.04.10	16.45	Tripped along wtih trippings of associated transmission lines.
		20.04.10	13.42	21.04.10	17.12	Low furnace pressure
		28.04.10	18.39	28.04.10	19.23	Low vacuum
		01.05.10	18.15	01.05.10	20.52	Tripped along wtih trippings of associated transmission lines.
		05.05.10	06.45	05.05.10	08.12	Furnace pressure low
		08.05.10	17.28	08.05.10	18.29	Drum level low
		09.05.10	03.48	09.05.10	05.17	Flame failure
		26.05.10	12.25	26.05.10	14.20	33kV bus differential operated
		28.05.10	05.55	29.05.10	07.17	Drum level low
		02.06.10	06.25	02.06.10	07.24	Electrical problem
		13.06.10	15.42	13.06.10	18.39	Tripped along wtih trippings of associated transmission lines.
		22.06.10	07.48	22.06.10	09.09	Furnace pressure low
		07.07.10	10.55	07.07.10	12.08	Flame failure
		10.07.10	15.45	10.07.10	20.01	Tripped along wtih trippings of associated transmission lines.
		19.07.10	14.39	19.07.10	15.19	Turbine tripped
		20.07.10	18.12	20.07.10	19.57	Turbine tripped.
		21.07.10	04.45	21.07.10	05.47	Turbine tripped.
		25.07.10	12.16	25.07.10	15.10	Under frequency relay operated
		11.08.10	11.24	11.08.10	11.54	High furnace pressure
		22.08.10	09.37	22.08.10	19.11	Coal flow very low
		03.09.10	19.37	04.09.10	01.01	Due to bus bar tripping
		05.09.10	10.25	18.10.10	06.34	Boiler tube leakage. Machines could not be synchronized due to CWG
		18.10.10	09.42	18.10.10	10.37	Boiler drum tripped
		20.10.10	15.54	21.07.10	22.00	Turbine tripped
		24.10.10	14.38	24.10.10	21.24	Turbine tripped
		28.10.10	00.15	31.10.10	19.20	Boiler tube leakage
		13.11.10	16.42	18.11.10	17.25	Electrical Problem
		12.12.10	09.59	12.12.10	10.45	Electrical Problem

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**30**	11.05.10	17.58	11.05.10	20.07	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		15.05.10	14.02	15.04.10	15.34	To attend the hot spot
		28.05.10	05.22	28.05.10	22.15	Due to heavy blast in 11KV Breaker
		30.05.10	12.55	31.05.10	11.12	Stopped due to high under drawal at high frequency.
		07.06.10	09.22	08.06.10	21.08	
		10.06.10	00.10	10.06.10	08.07	Due to overloading of 160 MVA Tx
		02.07.10	15.12	07.01.20	15.54	Gas fuel hydraulic trip pressure low
		04.07.10	21.31	05.07.10	13.28	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due high frequency
		06.07.10	07.37	06.07.10	09.15	Tripped due to tripping of 160 MVA TX at IP End.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	08.07.10	07.15	08.07.10	13.00	Gas fuel hydraulic trip pressure low
		08.07.10	13.00	08.07.10	21.10	Stopped due to high under drawal at high frequency.
		12.07.10	11.02	12.07.10	12.05	Gas fuel hydraulic trip pressure low
		12.07.10	20.15	14.07.10	02.42	Stopped due to high under drawal at high frequency.
		14.07.10	06.04	14.07.10	06.55	Gas fuel hydraulic trip pressure low
		14.07.10	19.42	14.07.10	20.40	Gas fuel hydraulic trip pressure low
		18.07.10	07.24	18.07.10	14.19	Due to shut-down of 160 MVA Tx.
		20.07.10	15.31	21.07.10	07.52	Stopped due to high under drawal at high frequency.
		22.07.10	18.50	24.07.10	14.55	
		25.07.10	00.02	29.07.10	11.27	
		31.07.10	11.00	12.08.10	11.27	
		12.08.10	18.55	14.08.10	22.18	C&I Problem. After clearance from C&I GT not taken on load due to swapping of gas to PPCL
		15.08.10	11.08	28.08.10	23.10	Stopped due to high under drawal at high freq. Machine could not sync-hronized after 15:30hrs. as voltage not build up more than 9.5KV.
		03.09.10	09.02	30.09.10	14.22	Stopped due to high under drawal at high frequency.
		04.10.10	06.05	06.10.10	10.55	
		11.10.10	12.15	11.10.10	13.25	Problem in emergency push button switch
		26.10.10	00.02	26.11.10	10.50	Stopped due to high under drawal at high frequency
		26.11.10	12.05	29.11.10	05.50	
		30.11.10	00.15	30.11.10	06.55	
		09.12.10	00.04	09.12.10	06.25	
		11.12.10	00.05	11.12.10	06.24	
		14.12.10	00.04	14.12.10	06.20	
		14.12.10	00.04	14.12.10	06.19	
		20.12.10	21.05	21.12.10	06.26	
		23.12.10	00.02	23.12.10	05.52	
		28.12.10	18.10	29.12.10	23.59	Machine stopped to avoid overloading of 160 MVA Txr-2.
		30.12.10	02.35	30.12.10	06.40	Stopped due to high under drawal at high frequency
		31.12.10	21.46	31.12.10	23.59	
		01.01.11	0.00	01.01.11	20.30	
		03.01.11	00.05	05.01.11	11.45	
		08.01.11	14.45	08.01.11	15.26	Machine tripped as on jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	19.58	Unit tripped due to tripping of 160 MVA Tx-I & II while energization of 66 KV Akshardham Ckt.
		20.01.11	00.02	22.01.11	06.23	Stopped due to high under drawal at high frequency
		22.01.11	17.50	30.01.11	23.59	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	**30**	11.05.10	17.58	11.05.10	20.30	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		30.05.10	13.45	31.05.10	09.19	Machine stopped to avoid overloading of 160 Mva Tx as one 100MVA Transformer was under replacement with 160MVA Tx at IP Extension
		07.06.10	14.19	07.06.10	18.55	
		20.06.10	08.35	20.06.10	11.02	Tripped without any alarm
		04.07.10	21.31	05.07.10	07.47	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to high freq.
		06.07.10	07.23	06.07.10	10.03	Tripped due to tripping of 160 MVA TX at IP End.
		08.07.10	14.58	08.07.10	19.32	
		12.07.10	21.12	13.07.10	21.39	Stopped due to high under drawal at high frequency.
		18.07.10	07.58	18.07.10	12.26	Due to shut-down of 160 MVA Tx.
		20.07.10	13.01	21.07.10	04.13	Stopped due to high under drawal at high frequency.
		22.07.10	21.47	24.07.10	07.35	
		25.07.10	01.50	29.07.10	13.18	
		31.07.10	11.00	09.08.10	12.31	
		11.08.10	18.25	12.08.10	11.20	
		12.08.10	12.48	12.08.10	19.45	
		13.08.10	12.30	28.08.10	15.15	Swapping of gas to PPCL.
		01.09.10	22.33	01.10.10	16.00	Stopped due to low demand and high frequency.
		01.10.10	16.00	10.01.10	18.40	Oil leakage from load gear box
		26.10.10	00.02	29.11.10	06.10	Stopped due to low demand and high frequency.
		14.12.10	14.40	14.12.10	15.20	Electrical problem
		16.12.10	00.05	16.12.10	07.12	Stopped due to low demand and high frequency.
		24.12.10	11.55	25.12.10	16.05	Due to tripping of 160MVA Tx-i
		04.01.11	00.05	04.01.11	19.12	Machine stopped as generation on Spot R-LNG is not required by SLDC
		08.01.11	14.45	08.01.11	15.26	Machine tripped as on jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.20	Unit tripped due to tripping of 160 MVA Tx-I & II while energization of 66 KV Akshardham Ckt.
		08.01.11	21.05	08.01.11	22.24	
		22.01.11	17.50	30.01.11	23.59	Machine tripped in the jerk caused due to tripping of STG#1. Machine is available on open cycle.
3	**30**	01.05.10	06.05	01.05.10	18.35	Stopped to clean PHE
		28.05.10	10.20	28.05.10	11.27	Tripped on battery under voltage.
		01.06.10	23.55	02.06.10	08.28	To avoid overloading of 160MVA Tx
		04.06.10	12.02	04.06.10	16.04	Condensate level high.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	06.06.10	09.42	07.06.10	14.10	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		14.06.10	09.24	14.06.10	11.08	
		12.07.10	09.00	12.07.10	14.15	Machine not available due to problem in Diesel Engine of GT
		12.07.10	14.15	14.07.10	10.25	Stopped due to high under drawal at high frequency.
		17.07.10	12.20	19.07.10	15.42	Loss of Excitation.
		20.07.10	15.22	23.07.10	12.01	To regulate the load of Radial feeders as 160MVA Tx tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		11.08.10	17.55	12.08.10	12.39	Stopped due to high under drawal at high frequency.
		13.08.10	12.32	14.08.10	06.15	Due to swapping of gas to PPCL.
		15.08.10	11.00	15.08.10	17.13	Stopped due to high under drawal at high frequency.
		26.08.10	19.32	27.08.10	07.20	
		02.09.10	00.20	06.09.10	12.01	
		06.09.10	13.54	06.09.10	15.15	Machine tripped on Y-Phase Bus Bar differential relay on BB-3 and BB-4.
		10.09.10	16.04	28.09.10	18.25	Stopped due to high under drawal at high frequency.
		01.10.10	00.35	01.10.10	01.15	Due to problem in CRT
		15.10.10	22.20	19.10.10	23.59	Gas restriction
		25.10.10	14.05	25.10.10	18.44	Gas restriction
		28.10.10	16.41	30.11.10	23.59	Stopped due to high under drawal at high frequency.
		04.12.10	00.05	04.12.10	16.56	
		05.12.10	00.05	05.12.10	05.30	
		17.12.10	00.05	17.12.10	10.03	
		25.12.10	15.30	25.12.10	18.25	
		01.01.11	21.05	03.01.11	05.50	
		06.01.11	16.05	08.01.11	11.21	
		08.01.11	14.31	10.01.11	06.25	
		12.01.11	00.05	12.01.11	05.50	
		13.01.11	02.01	13.01.11	11.31	
		14.01.11	00.02	14.01.11	06.30	
		14.01.11	13.20	14.01.11	14.20	Machine tripped on combined cycle alarm trip relay.
		14.01.11	14.20	15.01.11	09.50	Stopped due to high under drawal at high frequency.
		15.01.11	20.05	16.01.11	13.55	
		17.01.11	07.00	17.01.11	07.25	Came on FSNL due to tripping of both 160 MVA Tx-I #II at Pragati end.
		17.01.11	23.25	18.01.11	11.10	Stopped due to high under drawal at high frequency.
		18.01.11	23.31	19.01.11	07.34	
		31.01.11	07.31	31.01.11	10.15	Machine tripped on high TAD

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	01.04.10	00.00	24.05.10	15.35	Planned shut-down
		24.05.10	18.02	24.05.10	22.50	Tripped on LTTH high.
		27.05.10	10.35	27.05.10	13.45	Take on FSNL to adjust the load.
		28.05.10	01.10	28.05.10	03.00	Tripped without any alarm.
		29.05.10	03.10	29.05.10	03.45	Tripped without any alarm.
		29.05.10	05.10	29.05.10	05.57	Tripped without any alarm.
		29.05.10	20.25	29.05.10	21.25	Came on FSNL
		03.06.10	14.10	03.06.10	15.30	Generator Stator overheating alarm
		05.06.10	05.46	07.06.10	08.29	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		28.06.10	01.10	28.06.10	01.50	Came on FSNL
		29.06.10	14.50	29.06.10	16.10	Tripped without any alarm
		14.07.10	21.31	12.07.10	09.00	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand.
		12.07.10	09.00	12.07.10	18.15	Problem in DC EOP of GT
		12.07.10	18.15	14.07.10	11.33	Stopped due to high under drawal at high frequency.
		14.07.10	11.33	16.07.10	17.25	Due to problem in Mark-VI
		20.07.10	15.35	20.07.10	16.27	Machine came on FSNl due to jerk in the system
		20.07.10	21.01	24.07.10	05.45	Stopped due to high under drawal at high frequency.
		19.08.10	14.39	19.08.10	16.57	Tripped on loss of flame.
		19.08.10	17.35	19.08.10	22.53	Stopped due to high under drawal at high frequency.
		05.09.10	07.50	05.09.10	11.25	Tripped on following alarms lost communication with Controller R,S &T. Field failure alarm appeared on protection panel.
		06.09.10	13.54	06.09.10	14.35	Machine tripped on Y-Phase Bus Bar differential relay on BB-3 &4
		15.09.10	15.10	15.09.10	15.48	Machine came on FSNL due tripping of 160 MVA Tx
		22.09.10	21.11	28.09.10	11.57	Stopped due to high under drawal at high frequency.
		18.10.10	07.30	18.10.10	10.27	Tripped on Generator GAC Electrical Problem alarm
		25.10.10	14.10	29.11.10	19.57	Stopped due to high under drawal at high frequency
		03.12.10	00.01	03.12.10	05.05	
		12.12.10	00.02	12.12.10	06.32	
		17.12.10	00.05	17.12.10	09.48	
		19.12.10	15.35	20.12.10	06.20	
		21.12.10	21.05	22.12.10	06.25	
		08.01.11	14.25	08.01.11	15.27	Machine tripped on heavy jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.57	Both the 160MVA Tx tripped while energization of 66KV Akshardham ckt
		08.01.11	21.05	11.01.11	10.37	Machine tripped due to tripping of both the 160 MVA Tx. Later not taken on load due to high frequency and low demand
		14.01.11	16.30	17.01.11	20.08	Stopped due to high frequency and low demand

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	01.04.10	00.00	01.04.10	01.30	Hydraulic pressure low
		25.04.10	11.32	25.04.10	14.55	To change generator absolute filter.
		07.05.10	18.20	08.05.10	16.35	Stopped due to high frequency.
		01.06.10	20.50	01.06.10	23.16	GT came on FSNL
		03.06.10	01.15	03.06.10	08.09	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		03.06.10	20.15	04.06.10	08.33	
		07.06.10	21.43	09.06.10	15.45	
		25.06.10	09.40	25.06.10	15.25	
		26.06.10	00.05	26.06.10	05.56	
		26.06.10	09.50	28.06.10	12.20	
		14.07.10	21.31	14.07.10	22.20	Tripped due to tripping of 160 MVA TX at IP End.
		05.07.10	13.45	08.07.10	10.55	Stopped due to high frequency and low demand
		08.07.10	14.58	08.07.10	20.10	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		18.07.10	07.55	18.07.10	12.20	Due to shut-down of 160 MVA Tx.
		20.07.10	15.35	20.07.10	19.18	Machine came on FSNL due to jerk in the system
		21.07.10	09.31	22.07.10	18.46	Stopped due to high frequency and low demand
		31.07.10	11.00	01.08.10	12.57	
		13.08.10	18.25	14.08.10	06.18	Due to swapping of gas to PPCL.
		15.08.10	18.40	17.08.10	16.25	Stopped due to high frequency and low demand
		24.08.10	11.07	01.09.10	23.18	
		06.09.10	13.54	06.09.10	17.45	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		08.09.10	09.30	10.09.10	14.55	Stopped due to high frequency and low demand
		15.09.10	15.10	15.09.10	16.12	Machine came on FSNL due tripping of 160 MVA Tx
		28.09.10	15.10	30.09.10	15.14	Stopped due to high frequency and low demand
		15.10.10	09.00	15.10.10	15.45	
		28.10.10	11.30	28.10.10	15.55	
		19.11.10	20.10	19.11.10	22.29	Machine tripped on Battery under voltage alarm
		26.11.10	00.10	26.11.10	02.18	TAD high
		08.12.10	00.02	08.12.10	06.20	Stopped due to high frequency and low demand
		18.12.10	00.05	18.12.10	06.40	
		24.12.10	11.55	24.12.10	12.58	Due to tripping of 160 MVA Tx-1
		25.12.10	16.25	27.12.10	12.35	Stopped due to high frequency and low demand
		27.12.10	23.35	28.12.10	09.35	Machine stopped to avoid overloading of 160 MVA Txr-2.
		29.12.10	00.05	29.12.10	11.31	
		05.01.11	00.05	05.01.11	05.47	Stopped due to high frequency and low demand.
		05.01.11	19.31	06.01.11	09.25	
		06.01.11	16.05	07.01.11	11.20	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	**30**	07.01.11	18.03	08.01.11	10.35	Stopped due to high frequency and low demand.
		08.01.11	14.45	08.01.11	18.40	Machine tripped on heavy jerk due to tripping of 160MVA Tx-I & II
		08.01.11	21.05	08.01.11	22.35	Both the 160MVA Tx tripped while energization of 66KV Akshardham ckt
		12.01.11	23.32	14.01.11	14.20	Stopped due to high frequency and low demand.
		17.01.11	07.00	17.01.11	07.25	Came on FSNL due to tripping of both 160MVA Tx-I & II at IP Ext
		17.01.11	20.29	18.01.11	11..44	Stopped due to high frequency and low demand.
6	**30**	16.04.10	11.35	16.04.10	17.16	To clean PHE of GT
		05.05.10	09.03	05.05.10	15.32	Stopped for PHE cleaning.
		08.05.10	18.02	10.05.10	09.30	Stopped due to high frequency.
		11.05.10	17.58	11.05.10	20.10	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		24.05.10	16.45	24.05.10	21.13	Taken on FSNL to facilitate checking of auto synch. Mode.
		25.05.10	11.00	25.05.10	12.00	
		27.05.10	14.12	27.05.10	14.55	
		28.05.10	05.22	28.05.10	16.10	Due to blast in 11 KV Breaker
		29.05.10	17.42	30.05.10	09.55	Stopped due to high frequency.
		03.06.10	14.42	03.06.10	15.29	Machine came on FSNL due to Combustion trouble and flame detector trouble
		04.06.10	22.32	05.06.10	06.45	To avoid overloading of 160 MVA Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		07.06.10	19.55	09.06.10	14.35	
		25.06.10	18.53	28.06.10	18.50	Gas fuel control oil pressure low.
		30.06.10	17.05	30.06.10	18.58	Stopped as required by Prot.n Deptt
		04.07.10	21.31	04.07.10	21.42	Due to tripping of 160 MVA TX at IP End.
		06.07.10	07.37	08.07.10	08.20	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand
		08.07.10	14.58	08.07.10	16.49	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		08.07.10	17.25	08.07.10	18.06	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		14.07.10	09.32	14.07.10	14.28	To attend hunting in load
		20.07.10	15.35	20.07.10	15.43	Machine came on FSNl due to jerk in the system
		21.07.10	02.27	21.07.10	04.15	Tripped with multiple alarms
		21.07.10	04.15	22.07.10	18.16	Due to low demand and high freq.
		23.07.10	11.20	27.07.10	18.00	Due to smoke from mark VI panel
		27.07.10	18.00	29.07.10	12.17	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	12.40	
		15.08.10	11.06	17.08.10	15.50	
		19.08.10	21.50	23.08.10	12.25	Due to swapping of gas to PPCL.
		27.08.10	08.25	31.08.10	12.37	Stopped due to high frequency and low demand.
		31.08.10	16.02	01.09.10	18.45	
		06.09.10	13.54	06.09.10	14.44	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	**30**	15.09.10	15.10	15.09.10	16.12	FSNL due tripping of 160 MVA Tx
		18.09.10	12.15	18.09.10	13.40	Due to failure of IO card
		24.09.10	16.45	24.09.10	17.35	Electrical trouble
		28.09.10	19.15	30.09.10	14.20	Stopped due to high frequency and low demand.
		15.10.10	08.00	15.10.10	19.02	
		19.10.10	20.02	25.10.10	13.50	
		19.11.10	22.10	19.11.10	22.55	Due to failure of communicator
		24.11.10	12.58	24.11.10	13.55	Tripped on Numerical Relay faulty relay
		07.12.10	00.05	07.12.10	06.24	Stopped due to high frequency and low demand.
		09.12.10	22.46	10.12.10	06.20	
		13.12.10	00.02	13.12.10	06.30	
		13.12.10	06.30	13.12.10	12.14	Due to AC lube oil pump burnt
		19.12.10	00.02	19.12.10	06.44	Stopped due to high frequency and low demand.
		23.12.10	17.15	24.12.10	06.20	Machine stopped due to problem in GAIL pipeline
		24.12.10	11.55	24.12.10	12.40	Due to tripping of 160 MVA Tx-1
		25.12.10	18.28	28.12.10	13.45	To avoid overloading of 160 MVA Txr-2.
		31.12.10	00.04	31.12.10	09.10	Stopped due to high frequency and low demand.
		05.01.11	19.35	06.01.11	09.55	Stopped due to high frequency and low demand.
		08.01.11	14.45	08.01.11	15.26	Machine tripped on heavy jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.30	Both the 160 MVA Tx tripped while energization of 66 KV Akshardham Feeder
		08.01.11	21.05	09.01.11	16.20	
		11.01.11	00.05	11.01.11	05.50	Machine stopped to meet the shedule of 156 MW only from SLDC.
		11.01.11	06.05	11.01.11	08.08	Due to loss of excitation.
		12.01.11	00.05	12.01.11	09.27	Stopped due to high frequency and low demand
		17.01.11	00.02	17.01.11	12.10	
		18.01.11	15.20	19.01.11	07.36	
		19.01.11	14.05	22.01.11	18.28	
STG 1	**30**	07.04.10	12.55	07.04.10	17.35	To attend dearater level problem
		12.04.10	11.52	12.04.10	12.32	Lube oil header pressure low
		11.05.10	17.58	11.05.10	21.35	Tripped due to tripping of GT#2.
		19.05.10	23.25	20.05.10	03.25	Failure of supply of Turbine panel
		28.05.10	05.22	28.05.10	15.57	Due to blast in 11 KV Breaker
		30.05.10	13.45	31.05.10	12.46	Stopped due to high frequency.
		07.06.10	14.22	07.06.10	21.35	To avoid overloading of 160MVA Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG1	30	29.06.10	15.32	29.06.10	16.50	Tripped without any alarm
		04.07.10	21.31	05.07.10	09.50	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due SLDC message to maintain schedule of 80 MW.
		06.07.10	07.23	06.07.10	10.58	Tripped due to tripping of 160 MVA TX at IP End .
		08.07.10	14.58	08.07.10	22.10	
		09.07.10	23.42	10.07.10	01.50	Tripped on Ch-I&II
		10.07.10	02.38	10.07.10	03.17	
		10.07.10	03.25	10.07.10	03.50	
		10.07.10	03.55	10.07.10	04.42	
		07.10.10	18.32	10.07.10	18.48	
		12.07.10	21.12	13.07.10	23.47	Machine stopped as per SLDC message to maintain load of 80 MW
		18.07.10	07.01	18.07.10	14.14	Due to shut-down of 160 MVA Tx.
		20.07.10	15.31	21.07.10	07.50	To regulate the load of Radial feeders as 160 MVA Tx tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		22.07.10	21.47	24.07.10	08.25	Machine stopped as per SLDC message to maintain load of 80 MW
		24.07.10	17.04	24.07.10	17.32	Due to tripping of 800 KVA Tx
		25.07.10	01.30	29.07.10	17.50	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	19.12	
		10.08.10	13.26	10.08.10	15.03	Machine tripped as AOP-1A tripped.
		11.08.10	18.25	12.08.10	14.15	Stopped due to high frequency and low demand.
		12.08.10	18.55	12.08.10	21.40	Tripped due to tripping of GT#1.
		13.08.10	12.30	15.08.10	03.40	Due to swapping of gas to PPCL.
		15.08.10	11.08	28.08.10	20.15	Stopped due to high frequency and low demand.
		03.09.10	09.02	30.09.10	21.28	Stopped due to high frequency and low demand.
		04.10.10	06.41	04.10.10	13.28	Low vacuum
		05.10.10	12.48	05.10.10	15.05	Drum level low
		11.10.10	21.12	12.10.10	01.20	Generator shift vibration very high
		26.10.10	00.02	29.11.10	13.05	Stopped due to high frequency and low demand.
		09.12.10	00.04	09.12.10	06.58	HRSG# 1 stopped along with GT due to high frequency and low demand
		11.12.10	00.05	11.12.10	06.50	
		14.12.10	00.04	14.12.10	06.45	
		15.12.10	00.04	15.12.10	06.40	
		16.12.10	00.05	16.12.10	07.35	HRSG-2 stopped along with GT-2 due to high freq .and low demand
		20.12.10	21.05	21.12.10	06.54	HRSG# 1 stopped along with GT-1 due to high freq. and low demand
		23.12.10	00.05	23.12.10	06.20	
		24.12.10	11.55	25.12.10	16.40	Due to tripping of 160 MVA Trf.-1
		30.12.10	02.35	30.12.10	07.10	HRSG# 1 stopped along with GT due to high freq. and low demand
		31.12.10	21.46	31.12.10	23.59	Electrical problem
		01.01.11	00.00	01.01.11	21.05	HRSG# 1 stopped along with GT-1 due to high freq. and low demand

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG 1	**30**	03.01.11	00.05	05.01.11	12.10	HRSG# 1 stopped along with GT-1 due to high freq. and low demand
		04.01.11	00.05	04.01.11	21.52	HRSG-2 stopped along with GT-2 due to high freq .and low demand
		08.01.11	14.45	08.01.11	16.45	Due to tripping of 160MVA Tx-I&II
		08.01.11	17.18	08.01.11	18.50	Unit tripped due to tripping of 160MVA Tx-I & II while energizing 66 KV Akshardham feeder
		08.01.11	18.50	08.01.11	20.15	
		08.01.11	21.05	08.01.11	23.23	
		17.01.11	07.00	17.01.11	07.45	Due to tripping of 160MVA Tx-I&II
		22.01.11	17.50	31.01.11	23.59	Unit tripped due to bursting the 'B' Phase bushing of its Unit Tx.
STG2	**30**	15.04.10	11.15	15.04.10	18.40	To attend leakage in CPH line
		01.05.10	06.05	01.05.10	20.30	Stopped as GT#3 stopped for cleaning of PHE
		11.05.10	14.46	11.05.10	20.34	Stopped due to leakage in SRV.
		17.05.10	19.05	17.05.10	20.55	Due to non availability of the BFPs.
		24.05.10	10.50	26.05.10	22.00	To attend condenser backwashing and other leakages
		28.05.10	05.22	28.05.10	08.25	Due to blast in 11 KV Breaker
		01.06.10	10.23	01.06.10	10.40	Low vacuum due to tripping of CEP
		06.06.10	09.42	07.06.10	12.55	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		14.06.10	07.32	14.06.10	15.05	Tripped on CH-I & II
		14.07.10	21.31	12.07.10	09.00	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due SLDC message to maintain schedule of 80 MW.
		12.07.10	09.00	12.07.10	14.15	Due to outage of GT# 3 & 4
		12.07.10	14.15	12.07.10	18.15	HRSG# 4 due to outage of GT# 4
		12.07.10	18.15	14.07.10	12.50	Stopped due to high frequency and low demand.
		18.07.10	06.37	18.07.10	13.35	To attend 160 MVA Tx.
		20.07.10	15.22	23.07.10	14.55	To regulate the load of Radial feeders as 160 MVA Transformer tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		24.07.10	17.04	24.07.10	17.22	Due to tripping of 800 KVA Tx
		26.07.10	08.55	26.07.10	10.46	Low level vacuum

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG2	**30**	06.08.10	15.42	08.08.10	16.50	Machine tripped as Both Boiler Tripp alarm appeared on BCD while the drum level of both HRSG were normal.
		17.08.10	12.42	17.08.10	13.10	Machine tripped as both boiler tripped
		19.08.10	15.22	19.08.10	15.50	Failure of DC supply
		05.09.10	7.25	05.09.10	14.45	Machine tripped due to tripping of GT#4
		06.09.10	13.54	06.09.10	16.15	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		07.09.10	09.55	07.09.10	10.28	C&I Problem
		07.09.10	19.15	07.09.10	21.32	Machine tripped due to jerk.
		15.09.10	15.10	15.09.10	17.09	Machine tripped due to tripping of 160 MVA Tx
		22.09.10	21.11	28.09.10	14.55	Stopped due to high frequency.
		18.10.10	07.30	18.10.10	11.66	Machine tripped due to tripping of GT-4
		25.10.10	14.10	25.10.10	20.17	Stopped due to high frequency and low demand.
		28.10.10	16.41	29.11.10	23.45	
		03.12.10	00.01	03.12.10	05.00	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		04.12.10	00.05	04.12.10	17.45	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		05.12.10	00.05	05.12.10	06.20	
		08.12.10	11.31	08.12.10	11.51	Generator RJB vibration very high
		12.12.10	00.02	12.12.10	06.55	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		17.12.10	00.05	17.12.10	12.35	Machine stopped due to high frequency and low demand.
		19.12.10	15.35	20.12.10	06.55	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		21.12.10	21.05	22.12.10	06.50	
		25.12.10	15.30	25.12.10	18.55	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		01.01.11	21.05	03.01.11	06.20	
		06.01.11	16.05	08.01.11	14.45	
		08.01.11	14.45	08.01.11	20.00	Machine tripped as heavy jerk observed in control room &160 MVA Txr no.2 tripped and after simultaneously 160 MVA Txr no.1 also tripped.
		08.01.11	20.00	08.01.11	21.05	Both the 160 MVA Tx tripped while energization of 66 KV Akshardham Feeder
		08.01.11	21.05	10.01.11	10.59	HRSG-4 stopped alongwith GT-4 due to high freq. and low demand.
		10.01.11	10.59	11.01.11	11.13	
		12.01.11	00.05	12.01.11	06.20	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG2	**30**	13.01.11	02.01	13.01.11	11.59	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		14.01.11	00.02	14.01.11	06.58	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		14.01.11	13.20	14.01.11	14.20	Machine tripped as all the parameters disappeared.
		14.01.11	14.20	15.01.11	13.05	Due to low demand and high freq.
		15.01.11	20.05	16.01.11	15.35	Due to low demand and high freq.
		17.01.11	07.00	17.01.11	08.22	Unit tripped due to tripping of 160MVA Tx-I & II
STG3	**30**	02.04.10	03.25	07.04.10	05.28	Axial shift alarm appeared
		07.04.10	07.35	07.04.10	07.58	Lube oil pressure low
		09.07.10	21.20	09.04.10	22.32	Plunger coil trip alarm
		29.04.10	11.06	29.04.10	15.15	Plunger coil trip alarm
		05.05.10	09.05	05.05.10	17.32	Stopped to attend various leakages
		11.05.10	17.58	11.05.10	20.34	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		18.05.10	07.05	18.05.10	17.58	Stopped to attend Various leakages
		18.05.10	18.34	18.05.10	18.55	Tripped on Control oil header pressure very low. Both the Boiler trip alarm also appeared.
		18.05.10	19.35	18.05.10	22.25	
		28.05.10	05.22	28.05.10	10.58	Due to blast in 11 KV Breaker
		29.05.10	17.42	30.05.10	13.37	Stopped due to high frequency.
		07.06.10	21.43	09.06.10	17.25	To avoid overloading of 160 MVA Tx as 100MVA Tx under replace ment with 160MVA Tx at IP Ext.
		25.06.10	18.53	28.06.10	23.59	Tripped due to tripping of GT#6
		04.07.10	21.31	14.07.10	23.10	Tripped due to tripping of 160 MVA TX at IP End.
		06.07.10	07.23	08.07.10	11.13	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand
		08.07.10	12.20	08.07.10	21.28	Due to oil leakages observe in ESV.
		10.07.10	18.48	10.07.10	19.50	Due to disappearance of Parameters
		18.07.10	06.37	18.07.10	13.55	Due to shut-down of 160 MVA Tx.
		20.07.10	15.07	20.07.10	20.53	Due to tripping of 160 MVA Tx
		21.07.10	09.31	22.07.10	21.15	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	17.05	
		15.08.10	18.40	17.08.10	23.59	Stopped due to high frequency and low demand.
		20.08.10	17.10	20.08.10	19.25	Machine tripped on low vacuum.
		21.08.10	09.52	21.08.10	11.12	Machine tripped on low vacuum.
		27.08.10	08.25	01.09.10	22.25	Stopped due to high frequency and low demand.
		06.09.10	13.54	06.09.10	16.52	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		07.09.10	19.19	07.09.10	20.53	Machine tripped due to jerk.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG3	30	07.09.10	22.00	07.09.10	23.15	Machine tripped on false alarm of Hot well level very high though the level was normal.
		08.09.10	12.41	09.09.10	00.46	
		15.09.10	15.10	15.09.10	17.15	Machine tripped due to tripping of 160 MVA Tx
		28.09.10	19.15	30.09.10	16.50	Gas restriction
		15.10.10	09.00	15.10.10	17.26	
		20.10.10	06.45	20.10.10	08.57	Due to tripping of LOP of Boiler Feed Pump
		19.11.10	22.10	19.11.10	23.10	Tripped along with tripping of GT-6
		24.11.10	00.42	24.11.10	01.28	Low vacuum
		07.12.10	00.05	07.12.10	07.05	HRSG-6 along with GT-6 due to low demand and high frequency
		08.12.10	00.02	08.12.10	06.55	HRSG-5 along with GT-5 due to low demand and high freq.
		09.12.10	22.46	10.12.10	06.48	HRSG-6 along with GT-6 due to low demand and high frequency
		13.12.10	00.02	13.12.10	06.30	HRSG-6 along with GT-6 due to low demand and high frequency
		13.12.10	06.30	13.12.10	12.35	HRSG-6 could not be taken on load due to problem in GT-6
		14.12.10	02.37	14.12.10	04.17	Hot well level high
		18.12.10	00.05	18.12.10	07.20	HRSG-5 along with GT-5 due to low demand and high freq.
		19.12.10	00.02	19.12.10	07.10	HRSG-6 along with GT-6 due to low demand and high frequency
		22.12.10	15.40	22.12.10	16.03	Turbine RJB shaft vibration very high.
		23.12.10	17.15	24.12.10	06.50	HRSG-6 stopped alongwith GT-6 due to problem in GAIL pipe line
		24.12.10	11.55	24.12.10	13.38	Due to tripping of 160 MVA Trf-I
		25.12.10	16.25	25.12.10	18.28	HRSG-5 along with GT-5 due to low demand and high freq.
		25.12.10	18.28	27.12.10	16.05	
		27.12.10	23.35	28.12.10	11.25	Machine stopped to avoid overloading of 160 MVA Txr-2.
		31.12.10	00.04	31.12.10	14.30	HRSG-6 stopped alongwith GT-6 due to low demand and high freq.
		05.01.11	00.05	05.01.11	06.23	HRSG-5 stopped alongwith GT-5 due to low demand and high freq.
		05.01.11	19.35	06.01.11	10.50	Due to low demand and high freq.
		06.01.11	16.05	07.01.11	12.10	HRSG-5 stopped alongwith GT-5 due to low demand and high freq.
		07.01.11	18.03	08.01.11	11.20	HRSG-5 stopped alongwith GT-5 due to low demand and high freq.
		08.01.11	14.45	08.01.11	17.07	Machine tripped due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.55	Unit tripped due to tripping of 160MVA Tx-I & ii while energization of 66 KV Akshardham Feeder
		08.01.11	21.05	09.01.11	00.10	
		09.01.11	00.10	09.01.11	16.50	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG3	30	11.01.11	00.05	11.01.11	06.05	HRSG-6 stopped alongwith GT-6 due to low demand and high freq.
		11.01.11	06.05	11.01.11	08.30	
		12.01.11	00.05	12.01.11	09.45	
		12.01.11	23.32	14.01.11	14.55	HRSG# 5 stopped due to low demand from SLDC alongwith with GT #5
		17.01.11	07.00	17.01.11	08.42	Due to tripping of 160MVA Tx-I & II
		27.01.11	04.07	27.01.11	04.31	Machine tripped due to disappearance of hot well parameters

(C) PRAGATI STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	01.05.10	18.16	01.05.10	20.10	Tripped alongwtih trippings of associated transmission lines.
		23.05.10	09.45	23.05.10	15.41	Due to shut-down of 220kV Bus-II at IP Extension.
		09.06.10	17.38	09.06.10	22.56	Internal fault.
		13.06.10	15.38	13.06.10	16.55	Tripped alongwtih trippings of associated transmission lines.
		04.07.10	21.26	04.07.10	22.20	
		10.07.10	15.47	10.07.10	16.56	
		13.07.10	18.29	13.07.10	19.10	
		27.07.10	18.50	28.07.10	04.18	Due to firing in underneath bearings.
		01.08.10	09.00	02.08.10	12.18	Due to low demand and high frequency
		15.08.10	00.00	16.08.10	09.12	
		03.09.10	16.59	03.09.10	18.12	Problem in generator transformer
		03.09.10	23.30	04.09.10	02.40	Problem in turbine
		16.09.10	15.12	16.09.10	16.16	Tripped alongwtih trippings of associated transmission lines.
		26.09.10	14.35	26.09.10	15.44	
		11.10.10	04.18	11.10.10	09.48	Boiler feed pump tripped.
		14.10.10	17.10	14.10.10	17.44	Boiler feed pump tripped.
		26.12.10	11.00	26.12.10	23.30	Tripped alongwtih trippings of associated transmission lines.
		27.12.10	22.12	27.12.10	22.49	Internal problem
		27.12.10	23.38	28.12.10	05.14	Internal problem

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	104	09.06.10	15.41	09.06.10	16.50	Mark-V fuse tripped.
		03.09.10	16.59	03.09.10	19.43	Problem in generator transformer
		05.09.10	11.30	06.09.10	09.20	Reserve shut-down
		16.09.10	15.12	16.09.10	15.59	Tripped alongwtih trippings of associated transmission lines.
		19.09.10	10.00	20.09.10	10.16	Generation back down due to low demand and high frequency
		19.10.10	21.08	20.10.10	01.55	Internal fault
		20.10.10	02.28	08.11.10	13.02	Fault in oil pressure pump
		14.12.10	14.41	14.12.10	15.20	Tripped alongwtih trippings of associated transmission lines.
		27.12.10	07.00	27.12.10	20.35	Due to problem in air filter
		27.12.10	23.38	28.12.10	05.14	Internal problem
		08.01.11	14.44	18.01.11	15.37	Bus -1 getting dead
		17.01.11	06.23	19.01.11	07.19	Tripped due to tripping of associated transmission lines
		22.01.11	16.00	23.01.11	18.42	Baroscapic test
		27.01.11	08.41	27.01.11	09.45	Internal fault (FSNL)
STG	**122**	02.04.10	14.50	02.04.10	16.34	Tripped due to tripping of associated transmission lines
		01.05.10	18.16	01.05.10	19.50	
		12.05.10	15.53	12.05.10	17.00	
		14.05.10	15.32	14.05.10	16.27	Tripped due to tripping of associated transmission lines
		13.06.10	15.38	13.06.10	17.40	
		01.07.10	17.09	01.07.10	18.10	Internal fault
		04.07.10	21.26	04.07.10	23.00	Tripped due to tripping of associated transmission lines
		10.07.10	15.47	10.07.10	16.43	
		13.07.10	18.29	13.07.10	19.25	
		17.07.10	13.30	17.07.10	17.19	Exitor vibration problem
		19.07.10	15.05	19.07.10	19.13	
		03.09.10	16.59	03.9.10	19.05	Problem in generator transformer
		16.09.10	15.22	16.09.10	17.34	Tripped due to tripping of associated transmission lines
		28.09.10	14.35	26.09.10	15.35	
		11.10.10	04.18	11.10.10	06.28	Boiler feed pump tripped
		14.10.10	17.10	14.10.10	17.58	Boiler feed pump tripped
		29.10.10	14.45	29.10.10	15.34	Water level low in drum
		29.11.10	07.12	29.11.10	08.28	Internal fault
		23.12.10	10.05	23.12.10	11.12	Tripped due to tripping of associated transmission lines
		08.01.11	14.44	08.01.11	15.37	Bus-I getting dead
		08.01.11	17.59	08.01.11	18.58	CW pump tripped
		11.01.11	09.59	11.01.11	10.39	Internal fault (CW pump tripped)
		17.01.11	09.59	17.01.11	10.44	Internal fault (CW pump tripped)
		27.01.11	05.59	27.01.11	07.00	Internal fault

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	05.04.10	22.04	06.04.10	21.40	Maintenance work
		23.04.10	16.09	23.04.10	21.50	Electrical fault
		01.05.10	19.09	02.05.10	20.04	Generation back down due to low demand and high frequency.
		11.05.10	21.37	12.05.10	12.53	Electrical problem
		25.05.10	03.50	11.06.10	14.30	Excel shaft high
		13.07.10	12.02			Flame failure
		27.07.10	12.27	28.07.10	19.40	Generation back down due to low demand and high frequency.
		21.08.10	14.24	21.04.10	17.24	
		23.09.10	06.20	23.09.10	08.56	Boiler problem
		26.09.10	09.23	26.09.10	10.39	Boiler problem
		23.11.10	17.42	04.12.10	19.45	Generation back down due to low demand and high frequency.
2	95	07.05.10	19.45	10.05.10	08.16	Generation back down due to low demand and high frequency.
		20.05.10	11.35	22.05.10	22.40	Boiler Tube Leakage
		05.06.10	14.31	07.06.10	07.55	Generation back down due to low demand and high frequency.
		09.07.10	11.40	09.07.10	13.00	Electrical fault
		20.08.10	18.22	28.08.10	17.39	Generation back down due to low demand and high frequency.
		02.09.10	18.47	02.09.10	20.04	Due to tripping of associated transmission lines
		09.09.10	00.19	15.09.10	02.52	Reserve shut-down
		06.10.10	04.18	08.10.10	07.10	Electrical problem
		12.11.10	18.20	12.11.10	20.58	Tripped on jerk due to tripping of 220kV BTPS – Alwar Ckt.
		23.11.10	20.39	05.12.10	07.45	Generation back down due to low demand and high frequency
		29.01.11	23.00	31.01.11	00.44	Boiler problem
		31.01.11	11.55	31.01.11	18.13	Bus problem
3	95	03.04.10	00.18	03.04.10	05.20	Protection failure
		09.04.10	12.50	09.04.10	16.17	Vacuum low
		30.04.10	02.04	30.04.10	24.00	Annual maintenance
		29.06.10	22.56	03.07.10	19.02	Boiler Tube Leakage
		31.07.10	17.30	31.07.10	20.46	FD fan tripped
		25.08.10	19.34	28.08.10	11.15	Generation back down due to low demand and high frequency.
		26.09.10	02.23	29.09.10	03.05	
		12.11.10	18.20	12.11.10	21.22	Tripped on jerk due to tripping of 220kV BTPS – Alwar Ckt
		11.01.11	07.26	16.01.11	13.04	Boiler tube leakage
		26.01.11	08.54	27.01.11	08.55	Boiler tube leakage
4	210	23.04.10	07.02	24.04.10	19.55	Water valve leakage
		04.05.10	12.29	05.05.10	13.39	Boiler Tube Leakage
		12.05.10	23.25	13.05.10	18.32	Boiler Tube Leakage
		17.05.10	00.28	17.05.10	17.50	Boiler Tube Leakage
		19.05.10	12.43	20.05.10	03.02	Boiler Tube Leakage

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	210	21.05.10	08.00	22.05.10	05.56	Boiler Tube Leakage
		22.05.10	06.57	22.05.10	07.49	Electrical Problem
		27.05.10	20.33	31.05.10	12.14	Boiler Tube Leakage
		07.06.10	16.20	14.6.10	12.52	Generation back down due to heavy under drawal and high frequency
		19.06.10	19.43	20.06.10	19.10	Boiler Tube Leakage
		04.07.10	12.29	26.08.10	12.19	Planned shut-down for maintenance
		30.08.10	12.15	01.09.10	08.19	Boiler Tube Leakage
		10.09.10	18.03	10.09.10	21.18	Cooling system problem
		15.09.10	23.46	22.09.10	03.00	Generation back down due to high frequency and low demand.
		29.09.10	04.30	01.10.10	20.09	
		06.10.10	09.44	07.10.10	10.50	Boiler Tube Leakage
		07.10.10	19.50	08.10.10	12.37	Boiler Tube Leakage
		08.10.10	14.08	19.10.10	16.12	Boiler Tube Leakage
		20.10.10	22.10	21.10.10	15.50	Internal Fault
		27.10.10	23.50	23.11.10	15.40	Generation back down due to high frequency and low demand.
		01.12.10	21.35	02.12.10	15.05	Boiler Tube Leakage
		05.12.10	13.50	09.12.10	07.04	Generation back down due to high frequency and low demand.
		16.12.10	13.47	17.12.10	12.32	Boiler Tube Leakage
		26.12.10	11.43	27.12.10	06.15	Boiler Tube Leakage
		28.12.10	07.09	01.01.11	05.08	Boiler Tube Leakage
		02.01.11	04.30	03.01.11	11.04	Boiler Tube Leakage
		08.01.11	06.40	09.01.11	02.45	Boiler Tube Leakage
		12.01.11	09.22	12.01.11	21.55	Boiler Tube Leakage
		19.01.11	06.31	20.01.11	06.32	Boiler Tube Leakage
		28.01.11	19.46	29.01.11	11.10	Boiler Tube Leakage
		30.01.11	09.22	31.01.11	24.00	Boiler Tube Leakage
5	210	02.04.10	16.29	03.04.10	20.22	Boiler tube leakage
		17.04.10	22.30	18.04.10	12.20	Boiler tube leakage
		09.05.10	17.40	09.05.10	19.48	Tripped on jerk due to tripping of 220kV Ballabhgarh – BTPS Ckts and 220kV BTPS – Alwar Ckt.
		13.05.10	17.58	13.05.10	20.11	Furnace problem
		14.07.10	04.50	14.07.10	07.35	Electrical problem
		05.09.10	12.42	08.09.10	20.05	Reserve shut-down
		15.09.10	04.41	15.09.10	23.15	Stopped due to high frequency and low demand.
		23.09.10	17.06	26.09.10	01.14	
		03.10.10	10.16	01.11.10	15.30	Boiler Tube Leakage
		01.11.10	15.48	01.11.10	16.35	Boiler Tube Leakage
		04.11.10	18.20	05.11.10	19.27	Boiler Tube Leakage
		12.11.10	12.18	13.11.10	14.57	Boiler Tube Leakage
		04.12.10	12.00	05.12.10	11.50	Furnace problem
		15.12.10	09.08	16.12.10	06.55	Furnace pressure very high
		17.12.10	12.28	18.12.10	23.22	Excitation problem
		25.12.10	09.02	26.12.10	10.46	Boiler Tube Leakage
		11.01.11	09.16	12.01.11	16.10	Boiler Tube Leakage
		25.01.11	12.10	26.01.11	07.55	Boiler Tube Leakage

4 ALLOCATION OF POWER TO DELHI

A) Allocation from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f.01.01.2011

i) TIME BLOCK - 00.00-10.00hrs. and 23.00hrs. - 24.00hrs @ 0%

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage –II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15676**	**1619**	**3020**	**2665**	**0**	**0**	**2665**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**0**	**0**	**2907**

ii) Time Block 10.00HRS. - 18.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (without RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage –II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
RAPP (C)	440	64	56	49	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**8**	**7**	**96**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**93**	**83**	**2748**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**93**	**83**	**2990**

iii) Time Block 18.00hrs. to 23.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (with RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage –II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**22**	**19**	**109**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**107**	**96**	**2760**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**107**	**96**	**3002**

5 ALLOCATION OF POWER TO DISCOMS

ALLOCATION OF POWER TO VARIOUS LISCENCEES AS PER ORDER OF DERC AND DECISION OF GNCTD FOR ALLOCATION OF CENTRAL SECTOR STATIONS (DADRI THERMAL & BTPS) AND STATE SECTOR GENERATING STATIONS w.e.f. 01.01.2010 TO 31.03.2010. ALLOCATION OF 0.9MW HAS BEEN ALLOCATED TO UPCOMING JHAJJHAR PLAT FROM IP STATION. ALLOCATION OF 1 MW POWER FOR AUXILIARY NEEDS OF IP STATION FROM RPH WAS MADE W.E.F. 01.11.2009.

(Allocation In %)

(A) 10.00hrs. to 17.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0.00	0.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.98	0.00	24.18	36.87	23.97	100.00
3. BTPS	15.94	7.09	21.88	33.37	21.72	100.00
4. IP	0.00	0.00	0.00	0.00	0.00	100.00
5. RPH	0.86	0.00	28.35	43.04	27.75	100.00
6. GT	0.93	0.00	28.28	42.99	27.80	100.00
7. Pragati	26.69	0.00	20.77	31.76	20.78	100.00
8. DVC	0.00	0.00	29.18	43.58	27.24	100.00

(B) 00.00hrs. to 10.00hrs. and 17.00hrs. to 24.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0.00	0.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.05	0.00	24.18	36.87	24.90	100.00
3. BTPS	15.07	7.09	21.88	33.37	22.59	100.00
4. IP	0.00	0.00	0.00	0.00	0.00	100.00
5. RPH	0.00	0.00	28.35	43.04	28.61	100.00
6. GT	0.00	0.00	28.28	42.99	29.73	100.00
7. Pragati	25.76	0.00	20.77	31.76	21.71	100.00
8. DVC	0.00	0.00	29.18	43.58	27.24	100.00

6 POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND MET DURING JANUARY 2011

All figures in MW

Date	Time of peak demand	Generation within Delhi						Import from the Grid	Schedule from the Grid	OD(-) / UD(+)	Demand met	Shedding	Un-Restricted Demand
		RPH	GT	PPCL	BTPS	Rithala	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (3) to (7)	(9)	(10)	(11)= (10) -(9)	(12)= (10)+ (11)	(13)	(14)= (12)+ (13)
1	10:30:04	111	196	323	547	30	1207	2208	2365	157	**3415**	0	3415
2	10:44:05	110	193	266	381	30	980	2309	2311	2	**3289**	0	3289
3	10:03:07	109	193	326	415	30	1073	2538	2334	-204	**3611**	0	3611
4	10:12:34	110	162	318	576	30	1196	2455	2348	-107	**3651**	2	3653
5	10:37	111	196	320	618	31	1276	2636	2451	-185	**3912**	5	3917
6	10:26:06	112	215	311	623	31	1292	2603	2547	-56	**3895**	3	3898
7	10:04:53	113	153	319	629	26	1240	2678	2589	-89	**3918**	2	3920
8	10:24:22	112	157	329	430	26	1054	2832	2691	-141	**3886**	3	3889
9	10:59:12	114	118	327	614	25	1198	2633	2695	62	**3831**	10	3841
10	10:31:41	112	187	314	627	28	1268	2843	2668	-175	**4111**	3	4114
11	10:10:22	113	199	301	349	28	990	3077	2645	-432	**4067**	16	4083
12	09:30:17	115	215	319	139	27	815	3065	2535	-530	**3880**	69	3949
13	10:04:37	110	156	319	543	29	1157	2582	2774	192	**3739**	0	3739
14	09:59:32	108	197	312	522	28	1167	2565	2650	85	**3732**	3	3735
15	10:17:48	110	186	304	493	30	1123	2232	2600	368	**3355**	2	3357
16	10:04:48	111	160	323	553	31	1178	2243	2520	277	**3421**	6	3427
17	10:03:41	112	159	316	594	32	1213	2250	2536	286	**3463**	2	3465
18	09:53:35	112	154	317	605	30	1218	2254	2425	171	**3472**	2	3474
19	10:01:07	111	240	321	433	27	1132	2305	2085	-220	**3437**	114	3551
20	10:20:31	113	160	320	593	-1	1185	2226	2581	355	**3411**	3	3414
21	10:07:05	108	160	317	611	20	1216	2285	2439	154	**3501**	2	3503
22	09:31:54	110	198	320	619	20	1267	2037	2388	351	**3304**	2	3306
23	10:04:39	110	161	153	618	27	1069	2041	2293	252	**3110**	2	3112
24	10:05:58	109	162	313	608	28	1220	2103	2411	308	**3323**	0	3323
25	08:02:03	110	161	287	610	26	1194	2107	2212	105	**3301**	0	3301
26	09:00:49	111	161	320	488	28	1108	1841	2119	278	**2949**	0	2949
27	10:00	102	162	248	583	28	1123	2118	2376	258	**3241**	0	3241
28	09:48:17	110	163	326	618	28	1245	2240	2286	46	**3485**	0	3485
29	09:36:22	113	163	322	406	28	1032	2245	2335	90	**3277**	8	3285
30	10:04:00	116	162	320	344	27	969	2317	2344	27	**3286**	0	3286
31	09:59:55	112	120	323	429	28	1012	2310	2478	168	**3322**	0	3322

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING JANUARY 2011

All figures in MW

Date	Time of peak demand	Generation within Delhi						Import from the Grid	Schedule from the Grid	OD(-) / UD(+)	Demand met	Shedding	Un-Restricted Demand
		IP	RPH	GT	PPCL	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(3) to (7)	(9)	(10)	(11)= (10) -(9)	(12)=(10) + (11)	(13)	(14)= (12)+ (13)
1	10:30:04	111	196	323	547	30	1207	2208	2365	157	**3415**	0	3415
2	10:44:05	110	193	266	381	30	980	2309	2311	2	**3289**	0	3289
3	10:03:07	109	193	326	415	30	1073	2538	2334	-204	**3611**	0	3611
4	10:12:34	110	162	318	576	30	1196	2455	2348	-107	**3651**	2	3653
5	10:37:00	111	196	320	618	31	1276	2636	2451	-185	**3912**	5	3917
6	10:26:06	112	215	311	623	31	1292	2603	2547	-56	**3895**	3	3898
7	10:04:53	113	153	319	629	26	1240	2678	2589	-89	**3918**	2	3920
8	10:24:22	112	157	329	430	26	1054	2832	2691	-141	**3886**	3	3889
9	10:59:12	114	118	327	614	25	1198	2633	2695	62	**3831**	10	3841
10	10:31:41	112	187	314	627	28	1268	2843	2668	-175	**4111**	3	4114
11	10:10:22	113	199	301	349	28	990	3077	2645	-432	**4067**	16	4083
12	09:30:17	115	215	319	139	27	815	3065	2535	-530	**3880**	69	3949
13	10:04:37	110	156	319	543	29	1157	2582	2774	192	**3739**	0	3739
14	09:59:32	108	197	312	522	28	1167	2565	2650	85	**3732**	3	3735
15	10:17:48	110	186	304	493	30	1123	2232	2600	368	**3355**	2	3357
16	10:04:48	111	160	323	553	31	1178	2243	2520	277	**3421**	6	3427
17	10:03:41	112	159	316	594	32	1213	2250	2536	286	**3463**	2	3465
18	09:53:35	112	154	317	605	30	1218	2254	2425	171	**3472**	2	3474
19	10:01:07	111	240	321	433	27	1132	2305	2085	-220	**3437**	114	3551
20	10:20:31	113	160	320	593	-1	1185	2226	2581	355	**3411**	3	3414
21	10:07:05	108	160	317	611	20	1216	2285	2439	154	**3501**	2	3503
22	09:31:54	110	198	320	619	20	1267	2037	2388	351	**3304**	2	3306
23	10:04:39	110	161	153	618	27	1069	2041	2293	252	**3110**	2	3112
24	10:05:58	109	162	313	608	28	1220	2103	2411	308	**3323**	0	3323
25	08:02:03	110	161	287	610	26	1194	2107	2212	105	**3301**	0	3301
26	09:00:49	111	161	320	488	28	1108	1841	2119	278	**2949**	0	2949
27	10:00:00	102	162	248	583	28	1123	2118	2376	258	**3241**	0	3241
28	09:48:17	110	163	326	618	28	1245	2240	2286	46	**3485**	0	3485
29	10:00:00	113	161	322	386	28	1010	2241	2330	89	**3251**	55	3306
30	10:04:00	116	162	320	344	27	969	2317	2344	27	**3286**	0	3286
31	09:59:55	112	120	323	429	28	1012	2310	2478	168	**3322**	0	3322

8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR JANUARY 2011

A) AVAILABILITY FROM GENCO AND PRAGATI STNs. (all fig in MUs)

A (i) RPH	92.356
JHAJJAR SHARE	0.682
NET RPH	91.674
(ii) GT+STG	131.597
(iii) PRAGATI	225.404
(iv) RITHALA	16.827
TOTAL	465.502
B) AVAILABILITY FROM BTPS	386.487
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	20.550
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**831.439**

B) SOURCE WISE SCHEDULED DRAWL FROM THE NORTHERN GRID

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT DELHI PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY
B/SUIL	1.662	1.582	1.662	1.582
SALAL	10.042	9.556	10.042	9.556
TANKAPUR	1.760	1.675	1.732	1.648
CHAMERA	4.475	4.259	4.475	4.259
CHAMERA -II	5.275	5.021	5.275	5.021
DHAULIGANGA	4.302	4.094	4.302	4.094
SEWA -2	1.120	1.066	1.120	1.066
URI	10.054	9.570	10.054	9.570
ANTA (GAS)	19.689	18.735	12.892	12.264
ANTA (RLNG)	8.949	8.513	1.005	0.954
ANTA (LIQUID)	3.196	3.044	0.067	0.063
DADRI (GAS)	38.121	36.277	26.238	24.961
DADRI (RLNG)	22.084	21.008	2.213	2.100
DADRI (LIQUID)	8.697	8.284	0.090	0.086
AURAIYA (GAS)	30.868	29.375	20.446	19.451
AURAIYA (RLNG)	18.583	17.685	1.882	1.786
AURAIYA (LIQUID)	4.197	3.991	0.057	0.054
SINGRAULI	108.661	103.403	99.692	94.864
RIHAND -I	68.664	65.331	62.983	59.923
RIHAND -II	91.386	86.964	83.743	79.689
UNCHAHAR-I	17.271	16.435	13.884	13.212
UNCHAHAR-II	33.303	31.692	27.035	25.726
UNCHAHAR-III	19.296	18.361	15.724	14.961
DADRI (TH)	521.491	496.261	459.616	437.382
DADRI (TH) STAGE-II	607.055	577.631	547.785	521.246
NAPP	23.023	21.908	23.023	21.908
RAPP 'B'	1.851	1.761	1.851	1.761
RAPP 'C'	35.869	34.145	35.869	34.145
NATHPA JHAKRI	22.566	21.473	22.566	21.473
DULASTI	10.954	10.425	10.954	10.425
TEHRI	5.786	5.519	5.786	5.519
KHELGAON	27.508	26.182	23.651	22.509
KHELGAON-II	78.730	74.929	68.555	65.237
FARAKA	15.360	14.616	11.970	11.391
TALA	1.703	1.619	1.703	1.619
TALCHER	0.000	0.000	0.000	0.000
DVC	46.087	44.868	43.169	41.062
MAHARASHTRA	46.811	45.095	42.622	40.560
PUNJAB	37.202	35.402	37.202	35.402
WEST BENGAL	38.129	37.114	35.821	34.089
HIMACHAL PRADESH	0.100	0.095	0.100	0.095
MADHYA PRADESH	0.022	0.021	0.020	0.019

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT DELHI PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY
TO ANDHRA	-1.248	-1.320	-1.320	-1.385
TO MADHYA PRADESH	-89.019	-92.405	-92.405	-97.103
TO MEGHALAYA	-7.241	-7.439	-7.439	-7.817
TO UTTRANCHAL	-104.607	-109.926	-104.607	-109.926
TO RAJASTHAN	-14.229	-14.943	-14.229	-14.943
POWER EXCHANGE(IEX)	4.657	4.420	4.657	4.420
TO POWER EXCHANGE (IEX)	-148.724	-156.160	-148.724	-156.160
POWRER EXCHANGE(PX)	0.556	0.528	0.556	0.528
TO POWER EXCHANGE (PX)	-7.582	-7.956	-7.582	-7.956
TOTAL	1684.462	1569.782	1407.780	1302.387

C) AGENCY WISE BREAKUP OF ENERGY SCHEDULED DRAWL FROM THE GRID

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT POWER PERIPHERY
NTPC - NR	1621.511	1542.989	1375.351	1308.722
NTPC - ER	121.597	115.727	104.175	99.136
NHPC	49.644	47.246	49.616	47.220
NPC	60.743	57.813	60.743	57.813
NATHPA JHAKRI	22.566	21.473	22.566	21.473
TEHRI	5.786	5.519	5.786	5.519
TALA	1.703	1.619	1.703	1.619
TALCHER	0.000	0.000	0.000	0.000
DVC	46.087	44.868	43.169	41.062
MAHARASHTRA	46.811	45.095	42.622	40.560
PUNJAB	37.202	35.402	37.202	35.402
WEST BENGAL	38.129	37.114	35.821	34.089
HIMACHAL PRADESH	0.100	0.095	0.100	0.095
MADHYA PRADESH	0.022	0.021	0.020	0.019
POWER EXCHANGE(IEX)	4.657	4.420	4.657	4.420
POWER EXCHANGE(PX)	0.556	0.528	0.556	0.528
TOTAL	2057.112	1959.930	1784.086	1697.677

D) AGENCY WISE BREAKUP OF ENERGY SCHEDULED BY NRLDC FOR EXPORT TO OTHER UTILITIES FROM DTL

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT POWER PERIPHERY
TO ANDHRA	-1.248	-1.320	-1.320	-1.385
TO MADHYA PRADESH	-89.019	-92.405	-92.405	-97.103
TO MEGHALAYA	-7.241	-7.439	-7.439	-7.817
TO UTTRANCHAL	-104.607	-109.926	-104.607	-109.926
TO RAJASTHAN	-14.229	-14.943	-14.229	-14.943
TO POWER EXCHANGE (IEX)	-148.724	-156.160	-148.724	-156.160
TO POWER EXCHANGE (PX)	-7.582	-7.956	-7.582	-7.956
TOTAL	**-372.650**	**-390.148**	**-376.306**	**-395.290**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**1684.462**	**1569.782**	**1407.780**	**1302.387**

TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS		1860.145
NET CONSUMPTION		1839.595
AVAILABILITY WITHIN DELHI		831.439
ACTUAL DRAWAL FROM THE GRID		1008.156
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY		-294.231
LOAD SHEDDING		**3.633**
UNRESTRICTED DEMAND (GROSS)		**1863.778**
UNRESTRICTED DEMAND (NET)		**1843.228**
MAX. NET CONSUMPTION		67.059Mus. ON 10.01.2011
MAX. LOAD SHEDDING		352 MW ON 12.01.2011 AT 10.00HRS.HRS.
PEAK LOAD	Peak Demand during the month	SHEDDING AT PEAK TIME
DAY PEAK	4111MW AT 10:31:41HRS ON 10.01.2011	3MW
EVENING PEAK	3634MW AT 19.00:00HRS ON 10.01.2011	1MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH	91.95%
	GT	65.51%
	PRAGATI	91.81%
	RITHALA	30.56%

9 SHEDDING DETAILS DURING THE MONTH OF JANUARY 2011

ALL FIGURES IN MUs

DATE	No. of Under Freq. Relay Operated	Shedding due to under frequency relay operation in MUs					Shedding due to Grid Restrictions (Over drawal / low freq.)			
		BSES		NDPL	NDMC	**TOTAL**	BSES		NDPL	NDMC
		BYPL	BRPL				BYPL	BRPL		
1	**2**	**3**	**4**	**5**	**6**	**7=3 to 6**	8	9	10	11
1-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
2-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
3-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.005	0.000
4-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.051	0.002	0.000
5-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.034	0.000
6-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.032	0.000
7-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.049	0.000
8-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
9-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
10-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
11-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.049	0.241	0.000
12-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.017	0.114	0.298	0.000
13-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
14-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
15-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
16-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
17-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.004	0.000
18-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.040	0.225	0.116	0.000
19-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.074	0.257	0.198	0.000
20-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
21-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
22-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
23-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
24-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
25-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
26-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
27-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
28-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.009	0.000
29-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.158	0.000	0.000
30-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
31-Jan-11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
Total	**0**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.131**	**0.854**	**0.988**	**0.000**

ALL FIGURES IN MUs

Date	Shedding due to Transmission/Grid Constraints in Central Sector Stations / TTC / ATC VOILATION				TOTAL	TOTAL SHEDDING DUE TO GRID RESTRICTIONS	Due to T&D Constraints				
							DTL				
	BSES		NDPL	NDMC			BSES		NDPL	NDMC	MES
	BYPL	BRPL					BYPL	BRPL			
1	12	13	14	15	**16=8to15**	**17=16+7**	18	19	20	21	22
1-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
2-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
3-Jan-11	0.000	0.000	0.000	0.000	**0.005**	**0.005**	0.000	0.000	0.000	0.000	0.000
4-Jan-11	0.000	0.000	0.000	0.000	**0.053**	**0.053**	0.000	0.000	0.000	0.000	0.000
5-Jan-11	0.000	0.000	0.000	0.000	**0.034**	**0.034**	0.000	0.000	0.000	0.000	0.000
6-Jan-11	0.000	0.000	0.000	0.000	**0.032**	**0.032**	0.000	0.000	0.000	0.000	0.000
7-Jan-11	0.000	0.000	0.000	0.000	**0.049**	**0.049**	0.000	0.000	0.054	0.000	0.000
8-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.046	0.000	0.009	0.010	0.000
9-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
10-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
11-Jan-11	0.000	0.000	0.000	0.000	**0.290**	**0.290**	0.000	0.000	0.000	0.000	0.000
12-Jan-11	0.000	0.000	0.070	0.000	**0.499**	**0.499**	0.000	0.000	0.000	0.000	0.000
13-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
14-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
15-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.007	0.000	0.007	0.000	0.000
16-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
17-Jan-11	0.000	0.000	0.000	0.000	**0.004**	**0.004**	0.009	0.000	0.000	0.001	0.000
18-Jan-11	0.000	0.000	0.000	0.000	**0.381**	**0.381**	0.002	0.033	0.000	0.000	0.000
19-Jan-11	0.000	0.000	0.000	0.000	**0.529**	**0.529**	0.000	0.000	0.000	0.000	0.000
20-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.036	0.045	0.000	0.000
21-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.001	0.000	0.006	0.000	0.000
22-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.034	0.008	0.000	0.000
23-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
24-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
25-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
26-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
27-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.002	0.012	0.015	0.000	0.000
28-Jan-11	0.000	0.000	0.000	0.000	**0.009**	**0.009**	0.000	0.000	0.000	0.000	0.000
29-Jan-11	0.000	0.000	0.000	0.000	**0.158**	**0.158**	0.000	0.000	0.000	0.000	0.000
30-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
31-Jan-11	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
Total	**0.000**	**0.000**	**0.070**	**0.000**	**2.043**	**2.043**	**0.067**	**0.115**	**0.144**	**0.011**	**0.000**

ALL FIGURES IN MUs

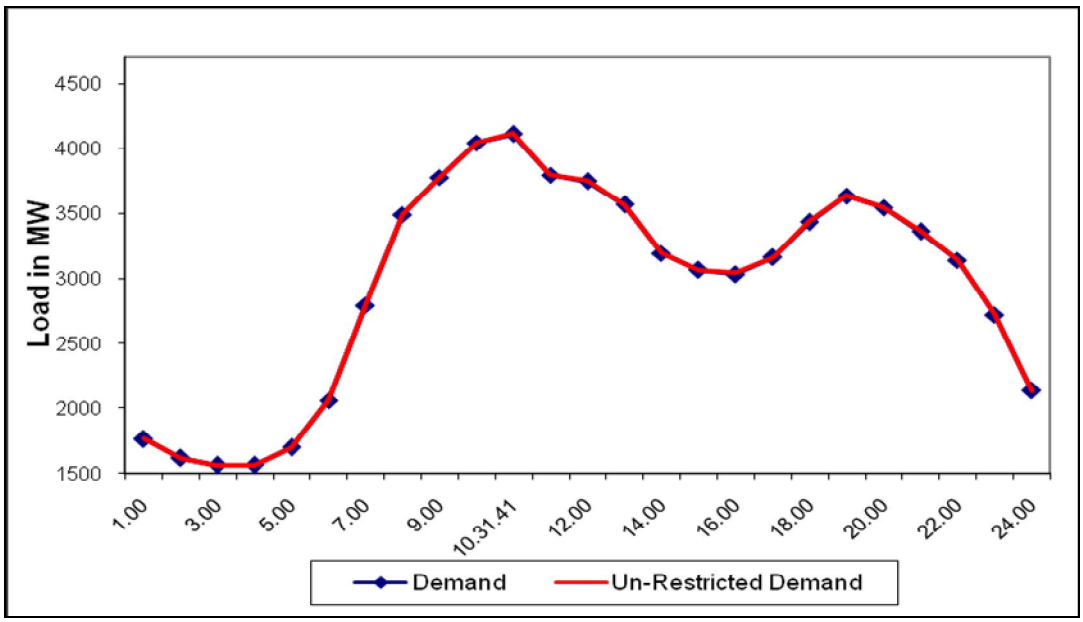
DATE	DUE TO T&D CONTRAINTS				OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS									
	BSES		NDPL	NDMC		BSES		NDPL		
	BYPL	BRPL				BYPL	BRPL			
1	23	24	25	26	27	28	29	30	31=18 to30	32=31+17
1-Jan-11	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
2-Jan-11	0.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.144**	**0.144**
3-Jan-11	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.006**
4-Jan-11	0.018	0.005	0.017	0.000	0.000	0.000	0.000	0.000	**0.040**	**0.093**
5-Jan-11	0.000	0.009	0.011	0.000	0.000	0.000	0.000	0.000	**0.020**	**0.054**
6-Jan-11	0.000	0.031	0.000	0.000	0.001	0.000	0.000	0.000	**0.032**	**0.064**
7-Jan-11	0.011	0.011	0.001	0.000	0.000	0.000	0.000	0.000	**0.077**	**0.126**
8-Jan-11	0.041	0.087	0.037	0.000	0.000	0.000	0.000	0.000	**0.230**	**0.230**
9-Jan-11	0.070	0.045	0.001	0.000	0.000	0.000	0.000	0.000	**0.116**	**0.116**
10-Jan-11	0.000	0.017	0.014	0.000	0.000	0.000	0.000	0.000	**0.031**	**0.031**
11-Jan-11	0.000	0.075	0.000	0.000	0.000	0.000	0.000	0.000	**0.075**	**0.365**
12-Jan-11	0.000	0.011	0.000	0.000	0.029	0.000	0.000	0.000	**0.011**	**0.510**
13-Jan-11	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	**0.006**	**0.006**
14-Jan-11	0.005	0.012	0.016	0.000	0.000	0.000	0.000	0.000	**0.033**	**0.033**
15-Jan-11	0.007	0.008	0.005	0.000	0.000	0.000	0.000	0.000	**0.034**	**0.034**
16-Jan-11	0.014	0.009	0.000	0.000	0.000	0.000	0.000	0.000	**0.023**	**0.023**
17-Jan-11	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	**0.018**	**0.022**
18-Jan-11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.035**	**0.416**
19-Jan-11	0.001	0.017	0.001	0.000	0.000	0.000	0.000	0.000	**0.019**	**0.548**
20-Jan-11	0.038	0.008	0.046	0.000	0.000	0.000	0.000	0.000	**0.173**	**0.173**
21-Jan-11	0.000	0.014	0.006	0.000	0.000	0.000	0.000	0.000	**0.027**	**0.027**
22-Jan-11	0.000	0.009	0.010	0.000	0.000	0.000	0.000	0.000	**0.061**	**0.061**
23-Jan-11	0.091	0.004	0.001	0.000	0.000	0.000	0.000	0.000	**0.096**	**0.096**
24-Jan-11	0.003	0.000	0.007	0.000	0.000	0.000	0.000	0.000	**0.010**	**0.010**
25-Jan-11	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	**0.020**	**0.020**
26-Jan-11	0.000	0.000	0.0003	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.0003**
27-Jan-11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.029**	**0.029**
28-Jan-11	0.039	0.019	0.001	0.000	0.000	0.000	0.000	0.000	**0.059**	**0.068**
29-Jan-11	0.000	0.000	0.066	0.000	0.000	0.000	0.000	0.000	**0.066**	**0.224**
30-Jan-11	0.072	0.003	0.0003	0.000	0.000	0.000	0.000	0.000	**0.075**	**0.075**
31-Jan-11	0.026	0.000	0.000	0.001	0.000	0.000	0.000	0.000	**0.027**	**0.027**
Total	**0.580**	**0.422**	**0.249**	**0.001**	**0.001**	**0.000**	**0.000**	**0.000**	**1.590**	**3.633**

DATE	(NET CONS.)	MAXI. DEMAND MET DURING THE DAY	TIME OF OCCUR-RENCE OF MAX DEMAND	SHEDDING AT THIS TIME	UN-REST-RICTED DEMAND	MAXIMUM UN-REST-RICTED DEMAND DURING THE DAY	TIME OF MAX. UN-REST. DEMAND	DEMAND AT THAT TIME	SHEDDING AT THAT TIME
	In Mus.	IN MW	IN HRS.	IN MW	IN MW	IN MW	HRS.	IN MW	IN MW
1	32	33	34	35	36=33+35	37=39+40	38	39	40
1-Jan-11	58.843	**3415**	10:30:04	0	**3415**	**3415**	10:30:04	3415	0
2-Jan-11	56.964	**3289**	10:44:05	0	**3289**	**3289**	10:44:05	3289	0
3-Jan-11	61.181	**3611**	10:03:07	0	**3611**	**3611**	10:03:07	3611	0
4-Jan-11	62.399	**3651**	10:12:34	2	**3653**	**3653**	10:12:34	3651	2
5-Jan-11	63.944	**3912**	10:37	5	**3917**	**3917**	09:59:59	3912	5
6-Jan-11	65.276	**3895**	10:26:06	3	**3898**	**3898**	10:26:06	3895	3
7-Jan-11	66.443	**3918**	10:04:53	2	**3920**	**3920**	10:04:53	3918	2
8-Jan-11	62.779	**3886**	10:24:22	3	**3889**	**3889**	10:24:22	3886	3
9-Jan-11	63.941	**3831**	10:59:12	10	**3841**	**3841**	10:59:12	3831	10
10-Jan-11	67.059	**4111**	10:31:41	3	**4114**	**4114**	10:31:41	4111	3
11-Jan-11	65.697	**4067**	10:10:22	16	**4083**	**4083**	10:10:22	4067	16
12-Jan-11	62.073	**3880**	09:30:17	69	**3949**	**3949**	09:30:17	3880	69
13-Jan-11	61.926	**3739**	10:04:37	0	**3739**	**3739**	10:04:37	3739	0
14-Jan-11	60.736	**3732**	09:59:32	3	**3735**	**3735**	09:59:32	3732	3
15-Jan-11	58.072	**3355**	10:17:48	2	**3357**	**3357**	10:17:48	3355	2
16-Jan-11	57.178	**3421**	10:04:48	6	**3427**	**3427**	10:04:48	3421	6
17-Jan-11	58.465	**3463**	10:03:41	2	**3465**	**3465**	10:03:41	3463	2
18-Jan-11	58.798	**3472**	09:53:35	2	**3474**	**3474**	09:53:35	3472	2
19-Jan-11	58.017	**3437**	10:01:07	114	**3551**	**3551**	10:01:07	3437	114
20-Jan-11	59.542	**3411**	10:20:31	3	**3414**	**3414**	10:20:31	3411	3
21-Jan-11	60.070	**3501**	10:07:05	2	**3503**	**3503**	10:07:05	3501	2
22-Jan-11	56.882	**3304**	09:31:54	2	**3306**	**3306**	09:31:54	3304	2
23-Jan-11	53.955	**3110**	10:04:39	2	**3112**	**3112**	10:04:39	3110	2
24-Jan-11	56.429	**3323**	10:05:58	0	**3323**	**3323**	10:05:58	3323	0
25-Jan-11	57.085	**3301**	08:02:03	0	**3301**	**3301**	08:02:03	3301	0
26-Jan-11	48.832	**2949**	09:00:49	0	**2949**	**2949**	09:00:49	2949	0
27-Jan-11	57.070	**3241**	10:00	0	**3241**	**3241**	10:00	3241	0
28-Jan-11	58.877	**3485**	09:48:17	0	**3485**	**3485**	09:48:17	3485	0
29-Jan-11	55.815	**3277**	09:36:22	8	**3285**	**3306**	10:00	3251	55
30-Jan-11	50.111	**3286**	10:04	0	**3286**	**3286**	10:04	3286	0
31-Jan-11	55.136	**3322**	09:59:55	0	**3322**	**3322**	09:59:55	3322	0
Total	**1839.595**	**4111**	**10:31:41**	3	**4114**	**4114**			

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING JANUARY 2011 ON 10.01.2011 –4111MW at 10:31:41HRS.

All figures in MW

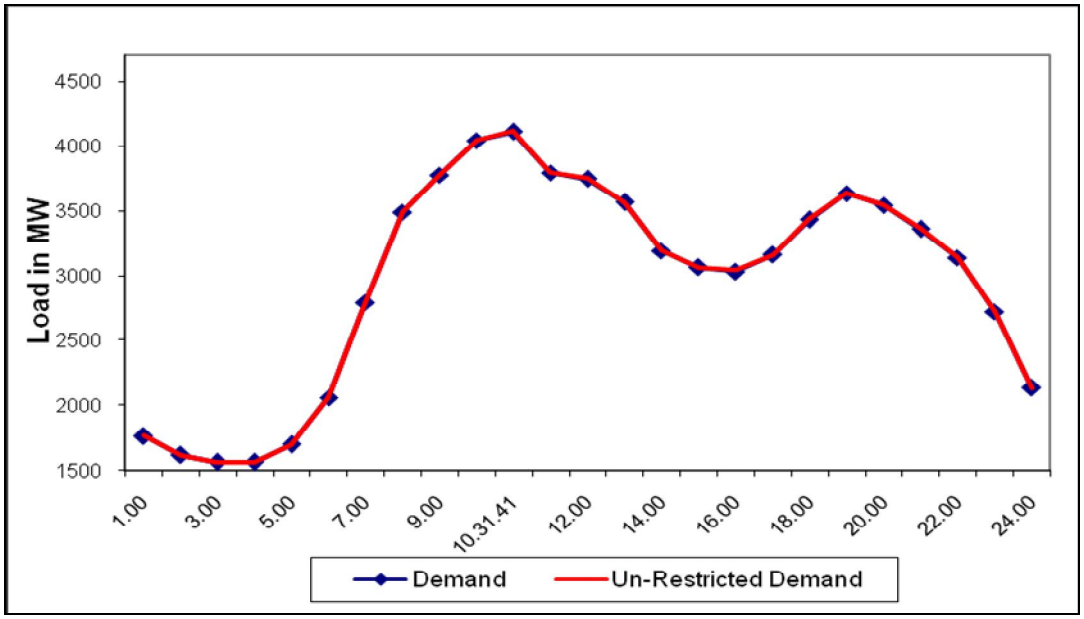
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1762	0	1762
2.00	1617	0	1617
3.00	1565	0	1565
4.00	1565	0	1565
5.00	1697	0	1697
6.00	2060	0	2060
7.00	2793	0	2793
8.00	3491	2	3493
9.00	3777	4	3781
10.00	4043	2	4045
10.31.41	**4111**	3	4114
11.00	3793	3	3796
12.00	3745	2	3747
13.00	3564	2	3566
14.00	3196	0	3196
15.00	3064	0	3064
16.00	3032	12	3044
17.00	3163	0	3163
18.00	3431	3	3434
19.00	3634	1	3635
20.00	3542	1	3543
21.00	3362	2	3364
22.00	3143	0	3143
23.00	2721	0	2721
24.00	2134	0	2134
ENERGY IN Mus	67.059	0.031	67.090



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING JANUARY 2011 – 10.01.2011– 4114MW at 10:31:41HRS.

All figures in MW

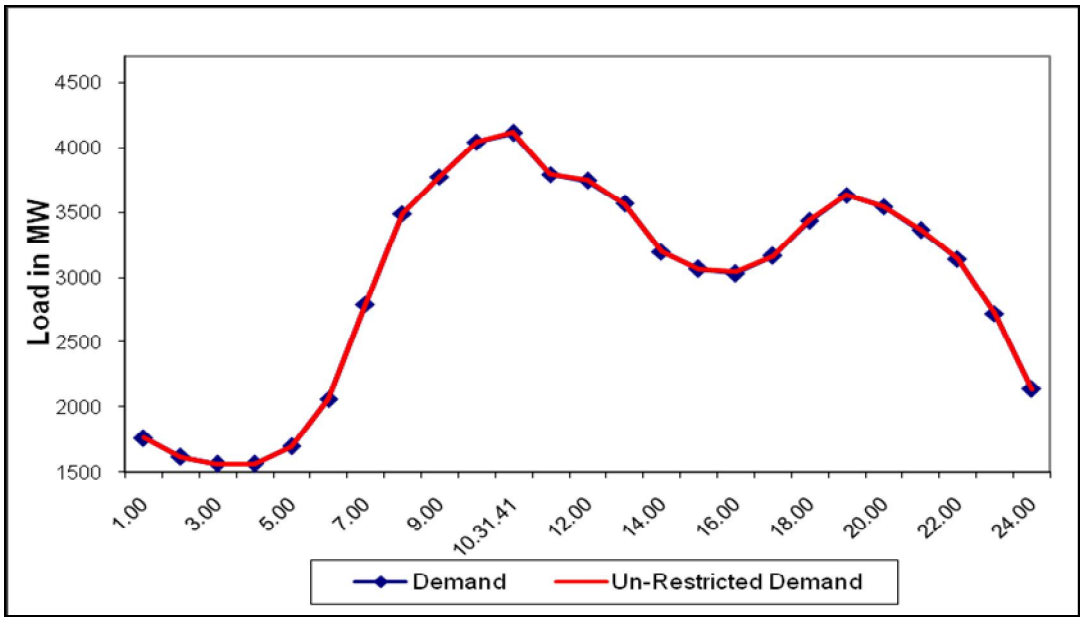
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1762	0	1762
2.00	1617	0	1617
3.00	1565	0	1565
4.00	1565	0	1565
5.00	1697	0	1697
6.00	2060	0	2060
7.00	2793	0	2793
8.00	3491	2	3493
9.00	3777	4	3781
10.00	4043	2	4045
10.31.41	4111	3	**4114**
11.00	3793	3	3796
12.00	3745	2	3747
13.00	3564	2	3566
14.00	3196	0	3196
15.00	3064	0	3064
16.00	3032	12	3044
17.00	3163	0	3163
18.00	3431	3	3434
19.00	3634	1	3635
20.00	3542	1	3543
21.00	3362	2	3364
22.00	3143	0	3143
23.00	2721	0	2721
24.00	2134	0	2134
ENERGY IN Mus	67.059	0.031	67.090



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING JANUARY 2011 – 10.01.2011 – 67.059 Mus

All figures in MW

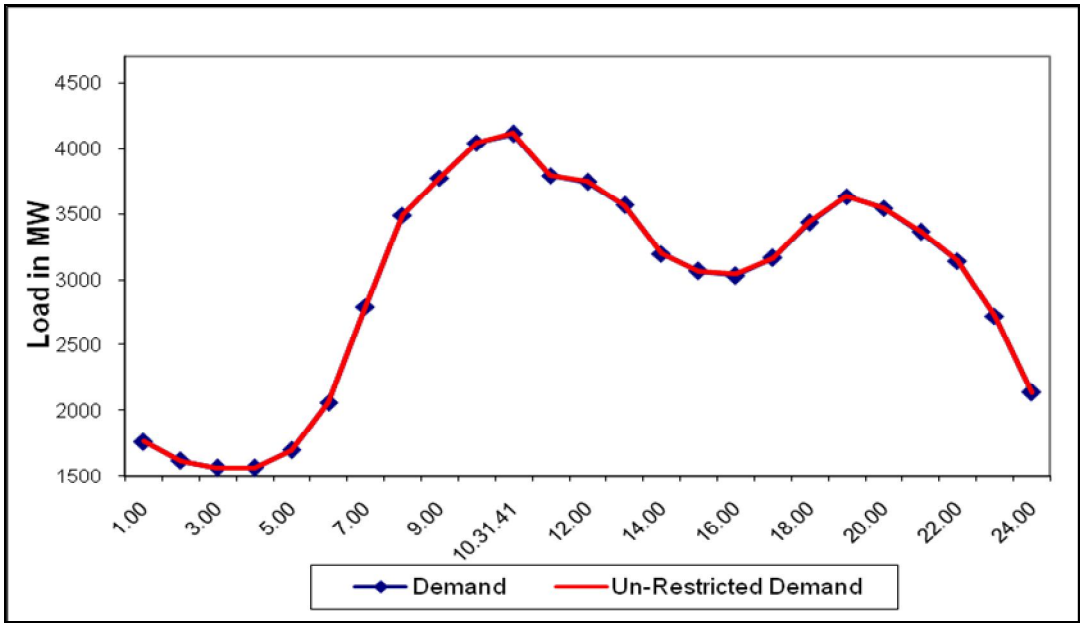
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1762	0	1762
2.00	1617	0	1617
3.00	1565	0	1565
4.00	1565	0	1565
5.00	1697	0	1697
6.00	2060	0	2060
7.00	2793	0	2793
8.00	3491	2	3493
9.00	3777	4	3781
10.00	4043	2	4045
10.31.41	4111	3	4114
11.00	3793	3	3796
12.00	3745	2	3747
13.00	3564	2	3566
14.00	3196	0	3196
15.00	3064	0	3064
16.00	3032	12	3044
17.00	3163	0	3163
18.00	3431	3	3434
19.00	3634	1	3635
20.00	3542	1	3543
21.00	3362	2	3364
22.00	3143	0	3143
23.00	2721	0	2721
24.00	2134	0	2134
ENERGY IN Mus	**67.059**	0.031	67.090



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING JANUARY 2011 – 10.01.2011 – 67.090Mus

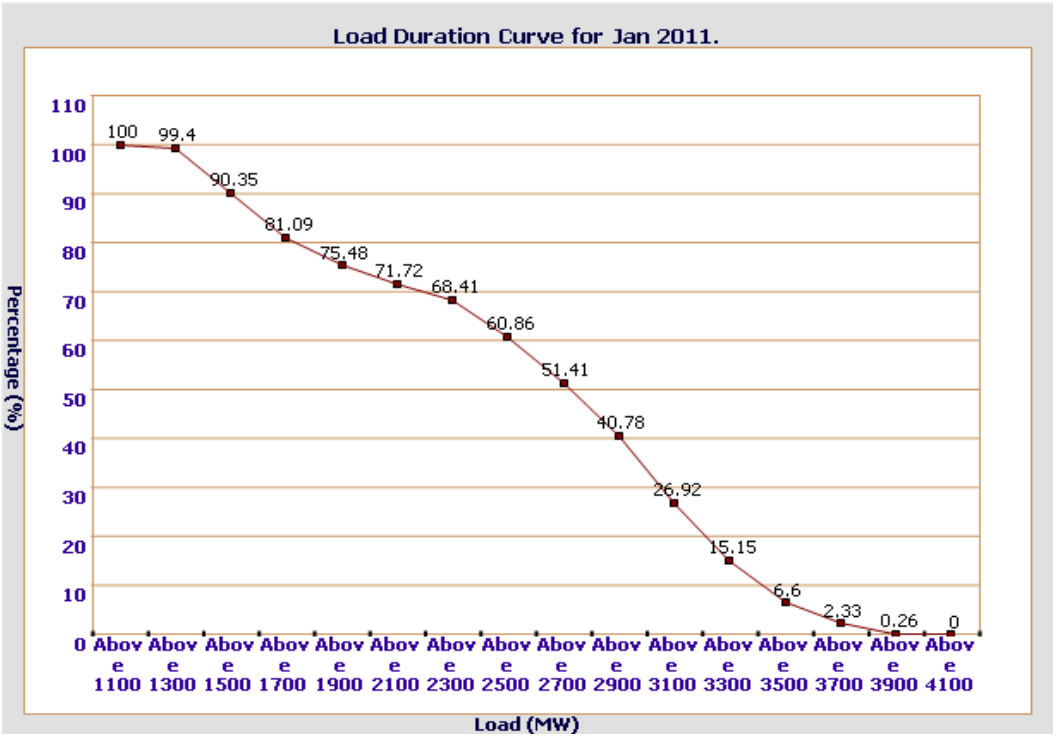
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1762	0	1762
2.00	1617	0	1617
3.00	1565	0	1565
4.00	1565	0	1565
5.00	1697	0	1697
6.00	2060	0	2060
7.00	2793	0	2793
8.00	3491	2	3493
9.00	3777	4	3781
10.00	4043	2	4045
10.31.41	4111	3	4114
11.00	3793	3	3796
12.00	3745	2	3747
13.00	3564	2	3566
14.00	3196	0	3196
15.00	3064	0	3064
16.00	3032	12	3044
17.00	3163	0	3163
18.00	3431	3	3434
19.00	3634	1	3635
20.00	3542	1	3543
21.00	3362	2	3364
22.00	3143	0	3143
23.00	2721	0	2721
24.00	2134	0	2134
ENERGY IN Mus	67.059	0.031	**67.090**



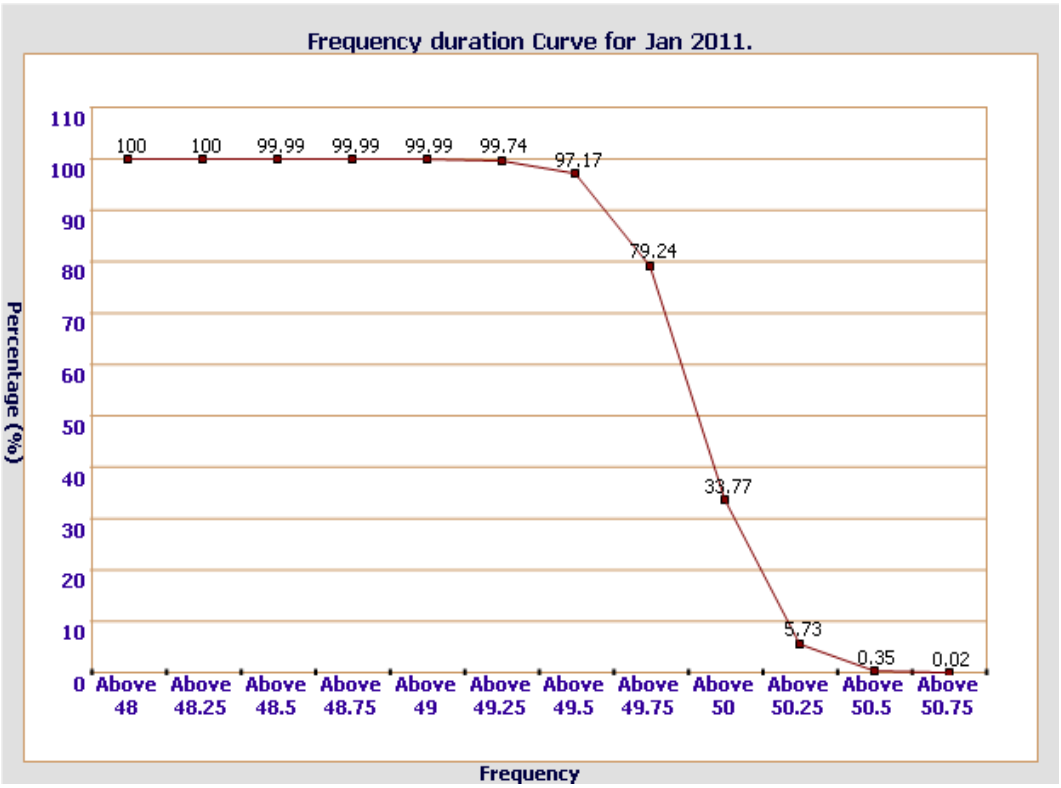
14 LOAD DURATION CURVE FOR JANUARY 2011

Load in MW	Percentage of Time
Above 1100	100 %
Above 1300	99.4 %
Above 1500	90.35 %
Above 1700	81.09 %
Above 1900	75.48 %
Above 2100	71.72 %
Above 2300	68.41 %
Above 2500	60.86 %
Above 2700	51.41 %
Above 2900	40.78 %
Above 3100	26.92 %
Above 3300	15.15 %
Above 3500	6.6 %
Above 3700	2.33 %
Above 3900	0.26 %
Above 4100	0 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF JANUARY 2011

Frequency Range in Hz.	Percentage of time
Above 48.25	100 %
Above 48.50	99.99 %
Above 48.75	99.99 %
Above 49.00	99.99 %
Above 49.25	99.74 %
Above 49.50	97.17 %
Above 49.75	79.24 %
Above 50.00	33.77 %
Above 50.25	5.73 %
Above 50.50	0.35 %
Above 50.75	0.02 %



16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING JANUARY 2011

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-Jan-11	232.15	214.09	233.31	212.54
2-Jan-11	232.02	214.61	233.43	212.67
3-Jan-11	231.24	212.54	232.40	212.15
4-Jan-11	231.37	213.32	232.66	212.54
5-Jan-11	230.73	210.74	232.15	208.67
6-Jan-11	229.44	211.38	231.24	209.96
7-Jan-11	230.60	209.83	232.53	--
8-Jan-11	230.47	212.15	231.37	210.74
9-Jan-11	229.82	212.67	230.86	211.77
10-Jan-11	228.92	213.70	230.47	211.57
11-Jan-11	228.28	212.54	228.28	209.83
12-Jan-11	226.86	--	228.53	210.48
13-Jan-11	226.73	213.44	226.21	212.15
14-Jan-11	231.24	215.38	230.47	213.83
15-Jan-11	231.50	212.80	231.50	212.80
16-Jan-11	229.44	211.77	230.73	211.25
17-Jan-11	230.73	212.67	231.89	212.03
18-Jan-11	228.92	210.61	230.47	212.03
19-Jan-11	227.89	210.87	229.18	203.38
20-Jan-11	228.53	211.51	229.44	203.38
21-Jan-11	228.28	211.77	226.08	206.22
22-Jan-11	230.08	211.90	229.44	208.67
23-Jan-11	228.79	214.73	228.92	213.44
24-Jan-11	228.79	214.73	228.92	213.44
25-Jan-11	228.15	214.35	228.66	212.67
26-Jan-11	228.28	216.67	229.95	217.06
27-Jan-11	228.02	--	230.60	--
28-Jan-11	228.15	211.90	230.60	212.67
29-Jan-11	228.15	214.73	228.02	215.12
30-Jan-11	--	--	--	--
31-Jan-11	224.92	212.15	225.31	211.77

17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING JANUARY 2011

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Jan-11	422.55	02.22.35	390.19	10.04.23	408.12
2-Jan-11	422.08	02.40.05	38996	09.35.01	408.44
3-Jan-11	420.44	02.03.09	387.85	09.42.26	404.35
4-Jan-11	420.67	03.06.03	389.02	10.30.15	403.39
5-Jan-11	420.21	03.09.00	--	--	404.45
6-Jan-11	420.44	02.10.27	396.20	10.16.36	403.52
7-Jan-11	422.55	03.02.57	384.56	10.46.45	402.85
8-Jan-11	420.67	03.03.57	383.16	10.36.12	402.80
9-Jan-11	419.74	03.36.35	388.55	10.09.29	404.41
10-Jan-11	419.74	02.47.01	390.19	10.08.40	403.36
11-Jan-11	417.86	03.04.27	389.02	12.42.01	401.66
12-Jan-11	415.98	03.03.44	384.33	10.10.39	401.27
13-Jan-11	412.70	01.30.05	386.91	11.14.01	400.15
14-Jan-11	418.56	03.28.31	392.77	11.06.26	405.58
15-Jan-11	420.44	01.31.08	391.13	10.09.07	404.66
16-Jan-11	419.03	04.02.47	388.55	09.22.25	407.29
17-Jan-11	422.08	02.04.14	388.78	09.24.59	404.34
18-Jan-11	418.33	03.27.44	386.20	10.07.16	402.10
19-Jan-11	416.22	03.56.26	383.16	11.15.21	400.81
20-Jan-11	418.10	03.03.37	383.39	10.10.31	401.83
21-Jan-11	417.86	04.05.13	386.20	10.42.37	401.93
22-Jan-11	421.38	03.12.34	385.03	10.10.16	402.21
23-Jan-11	419.03	03.01.32	390.19	08.34.32	404.85
24-Jan-11	419.03	03.01.32	390.19	08.34.32	404.85
25-Jan-11	418.10	03.00.44	390.89	12.14.58	403.31
26-Jan-11	418.56	17.05.48	393.47	09.33.21	407.24
27-Jan-11	--	--	--	--	402.54
28-Jan-11	417.86	03.03.47	390.19	12.05.26	403.31
29-Jan-11	417.16	02.13.57	391.36	10.11.24	404.66
30-Jan-11	--	--	--	--	--
31-Jan-11	422.55	04.06.15	386.67	11.11.50	408.14

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Jan-11	426.30	02.52.15	396.05	10.04.03	412.57
2-Jan-11	425.60	02.40.05	395.58	09.34.31	412.79
3-Jan-11	423.72	02.03.19	393.24	09.42.26	408.95
4-Jan-11	423.96	03.06.13	393.94	10.30.05	408.45
5-Jan-11	423.72	03.10.10	387.61	10.13.03	406.82
6-Jan-11	421.85	02.10.17	390.43	10.15.36	406.42
7-Jan-11	424.19	03.02.17	387.61	10.46.45	405.35
8-Jan-11	422.08	03.02.17	387.38	10.35.42	405.38
9-Jan-11	421.38	03.07.33	391.36	10.09.29	406.54
10-Jan-11	420.91	02.47.01	393.94	09.53.08	405.77
11-Jan-11	419.03	03.04.27	390.89	07.43.43	403.03
12-Jan-11	417.16	03.03.34	387.38	10.10.19	403.34
13-Jan-11	414.58	01.31.15	389.25	12.55.35	402.45
14-Jan-11	420.21	03.47.31	394.88	11.06.36	407.41
15-Jan-11	421.85	01.31.48	393.94	10.09.07	406.70
16-Jan-11	420.21	04.03.57	390.43	09.22.15	408.88
17-Jan-11	423.72	02.50.57	390.89	09.24.49	406.32
18-Jan-11	419.50	03.29.54	388.08	10.07.26	403.81
19-Jan-11	417.16	03.56.26	385.74	11.16.22	402.59
20-Jan-11	419.27	03.24.48	386.20	10.10.11	403.39
21-Jan-11	418.56	04.05.03	388.78	10.40.27	404.05
22-Jan-11	422.79	03.14.04	387.38	10.16.57	404.28
23-Jan-11	420.44	03.04.43	393.47	08.33.12	406.71
24-Jan-11	420.44	03.04.43	393.47	08.33.12	406.71
25-Jan-11	419.27	03.01.44	393.71	14.21.07	405.25
26-Jan-11	420.21	20.45.03	395.12	09.36.01	408.54
27-Jan-11	--	--	--	--	408.58
28-Jan-11	418.56	02.31.46	392.07	12.05.26	404.98
29-Jan-11	419.03	02.14.07	394.41	10.11.34	406.25
30-Jan-11	--	--	--	--	--
31-Jan-11	423.72	02.32.09	389.25	11.11.40	408.32

18 DETAILS OF LUMPED CAPACITORS AT NEAREST 220 KV SUBSTATION

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	**TOTAL**	MW	MVAR	66KV	33kV	11kV	**TOTAL**	MW	MVAR
1	**IP YARD**		30		**30**				30		**30**		
1	Kamla Market			16.35	**16.35**					16.35	**16.35**	8	
2	Minto Road												
3	GB Pant Hosp			15.88	**15.88**					10.48	**10.48**	5	
4	Delhi Gate			10.9	**10.9**					10.9	**10.9**	8	
5	Tilakmarg			5.04	**5.04**					5.04	**5.04**	12	
6	Electric Lane			5.04	**5.04**					5.04	**5.04**	19	
7	Cannaught Place			10.08	**10.08**					10.08	**10.08**	20	
8	Kilokri		10.08	10.48	**20.56**				0	5.03	**5.03**	4	
9	NDSE			5.03	**5.03**					5.03	**5.03**	6	
10	AIIMS		10	5.04	**15.04**				10	5.04	**15.04**	18	
11	Nizamuddin												
12	Exhibition-I		10		**10**				0		**0**	11	
13	Exhibition-II												
14	Defence Colony												
15	IG Stadium		10.08	5.45	**15.53**				0	5.45	**5.45**	4	
16	Lajpat Nagar												
17	IP Estate			10.9	**10.9**					5.45	**5.45**		
	Total				**170.4**	239	11	**0**	**40**	**83.89**	**123.9**	**115**	
2	**IP Extn.**												
1	School Lane			5.04	**5.04**					5.04	**5.04**	51	
2	Scindia House			5.04	**5.04**					5.04	**5.04**		
3	Vidyut Bhawan			10.08	**10.08**					10.08	**10.08**	52	
4	Nirman Bhawan			5.04	**5.04**					5.04	**5.04**	30	
5	Dalhousie Road			5.04	**5.04**					5.04	**5.04**		
	Total				**30.24**	129	12	**0**	**0**	**30.24**	**30.24**	**133**	
3	**RPH Station**		20	5.04	**25.04**				20	5.04	**25.04**		
1	Lahori Gate			10.49	**10.49**					10.49	**10.49**	7	
2	Jama Masjid			5.03	**5.03**					5.03	**5.03**	8	
4	Kamla Market												
5	Minto Road			10.9	**10.9**					10.9	**10.9**	6	
6	GB Pant Hosp												
7	IG Stadium												
	Total				**51.46**	100	30	**0**	**20**	**31.46**	**51.46**	**21**	
4	**Parkstreet S/stn**	20	20		**40**			20	20		**40**		
1	Shastri Park		10.896	5.45	**16.35**				10.896	5.45	**16.35**	47	
2	Faiz Road			10.9	**10.9**					10.9	**10.9**	12	
3	Motia Khan			16.3	**16.3**					16.3	**16.3**	11	
4	Prasad Nagar			16.25	**16.25**					16.25	**16.25**	11	
5	Anand Parbat			10.8	**10.8**					7.2	**7.2**	7	
6	Shankar Road			5.04	**5.04**					5.04	**5.04**	8	
7	Rama Road			14.4	**14.4**					7.2	**7.2**	3	
8	Baird Road			10.08	**10.08**					10.08	**10.08**	22	
9	Hanuman Road			5.04	**5.04**					0	**0**	11	
10	Pusa			7.2	**7.2**					7.2	**7.2**	7	
11	Ridge Valley											53	
12	SJ Airport			5.04	**5.04**					0	**0**	9	
13	B. D. Marg											11	
	Total				**157.4**	233	41	**20**	**30.9**	**85.62**	**136.5**	**212**	

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	TOTAL	MW	MVAR	66KV	33kV	11kV	TOTAL	MW	MVAR
5	**Naraina S/stn**		20	5.04	**25.04**				20	0	**20**		
1	DMS			10.85	**10.85**					10.85	**10.85**	6	
2	Mayapuri		10.87	5	**15.87**				10.87	5	**15.87**	13	
3	Inderpuri		13.26	5.04	**18.3**				0	5.04	**5.04**	7	
4	Rewari line			7.2	**7.2**					7.2	**7.2**		
5	Khyber Lane			5.04	**5.04**					5.04	**5.04**		
6	Kirbi Place	10		5.97	**15.97**			10		5.97	**15.97**		
7	Payal			14.4	**14.4**					7.2	**7.2**	4	
	Total				**112.7**	140	21	**10**	**30.87**	**46.3**	**87.17**	**30**	
6	**Mehrauli S/stn**	80		5.04	**85.04**			60		5.04	**65.04**		
1	Adchini			15.12	**15.12**					10.08	**10.08**	9	
2	Andheria Bagh			10.85	**10.85**					10.85	**10.85**	7	
3	IIT			10.9	**10.9**					5.45	**5.45**	7	
4	JNU		10.03	10.08	**20.11**				10.03	5.04	**15.07**	23	
5	Bijwasan			10.08	**10.08**					5.04	**5.04**	6	
6	DC Saket		10.08	4.54	**14.62**				0	0	**0**	10	
7	Malviya Nagar												
8	C Dot			5.4	**5.4**					0	**0**	3	
9	Vasant kunj B-Blk	21.79		10.9	**32.69**			0		0	**0**	2	
10	Vasant kunj C-Blk	20.16		10.49	**30.65**			0		0	**0**	2	
11	Palam											12	
12	IGNOU											2	
13	R. K. Puram-I			10.08	**10.08**					10.08	**10.08**	6	
14	Vasant Vihar			15.12	**15.12**					15.12	**15.12**	8	
15	Pusp Vihar			9.6	**9.6**					9.6	**9.6**		
16	Bhikaji Cama Place		10	10.08	**20.08**				10	5.04	**15.04**	9	
	Total				**290.3**	213	32	**60**	**20.03**	**81.34**	**161.4**	**106**	
7	**Vasantkunj S/stn**	40		5.04	**45.04**			40		5.04	**45.04**		
1	R. K. Puram-II			7.2	**7.2**					0	**0**	4	
2	Vasant kunj C-Blk										**0**		
3	Vasant kunj D-Blk	20.16		10.25	**30.41**			0		0	**0**	1	
4	Race Course			5.04	**5.04**					5.04	**5.04**		
5	Bapu Dham			10.08	**10.08**					10.08	**10.08**	24	
6	Nehru Park			10	**10**					10	**10**	8	
7	Ridge Valley										**0**		
	Total				**107.8**	244	35	**40**	**0**	**30.16**	**70.16**	**37**	
8	**Okhla S/stn**	60	10	5.04	**75.04**			60	10	5.04	**75.04**		
1	Balaji			7.2	**7.2**					3.6	**3.6**	6	
2	East of Kailash			10	**10**					5	**5**	13	
3	Alaknanda			16.25	**16.25**					10.85	**10.85**	9	
4	Malviya Nagar	21.79	20.16	10.49	**52.44**			21.79	20.16	10.49	**52.44**	77	
5	Masjid Moth			15.94	**15.94**					5.04	**5.04**	7	
6	Nehru Place			21.35	**21.35**					21.35	**21.35**	20	
7	Okhla Ph-I	21.79		10.9	**32.69**			21.79		0	**21.79**	6	
8	Okhla Ph-II		20.93	15.53	**36.46**				10.9	15.53	**26.43**	13	
9	Shivalik			10.9	**10.9**					10.9	**10.9**	9	
10	Batra			15.8	**15.8**					15.8	**15.8**	5	
11	VSNL			10.8	**10.8**					0	**0**	7	
12	Siri Fort			10.49	**10.49**					5.04	**5.04**	9	
13	Tuglakabad			10.8	**10.8**					0	**0**	11	
	Total				**326.2**	360	52	**103.6**	**41.06**	**108.6**	**253.3**	**192**	

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	TOTAL	MW	MVAR	66KV	33kV	11kV	TOTAL	MW	MVAR
9	**Lodhi Road S/stn**		20		**20**				20		**20**		
1	Defence Colony			10.9	**10.9**					5.45	**5.45**	13	
2	Hudco			10.9	**10.9**					0	**0**	7	
4	Lajpat Nagar			10.9	**10.9**					0	**0**	6	
5	Nizamuddin			10.49	**10.49**					10.49	**10.49**	10	
6	Vidyut Bhawan										**0**	6	
7	Kidwai Nagar			5.04	**5.04**					5.04	**5.04**	9	
8	Ex. Gr. II										**0**		
9	IHC										**0**		
	Total				**68.23**	157	61	**0**	**20**	**20.98**	**40.98**	**51**	
10	**Sarita Vihar S/stn**	20		5.04	**25.04**			20		5.04	**25.04**		
1	Sarita Vihar			10.08	**10.08**					10.08	**10.08**	13	
2	MCIE			10.06	**10.06**					0	**0**	4	
3	Mathura Road	20.16		10.08	**30.24**			20.16		5.04	**25.2**	3	
4	Jamia Millia			5.4	**5.4**					0	**0**	4	
5	Sarai Julena		10.08	10.9	**20.98**				10.08	10.9	**20.98**	14	
	Total				**101.8**	140	-3	**40.16**	**10.08**	**31.06**	**81.3**	**38**	
11	**South of Wazirabad**										**0**		
1	Bhagirathi		10.03	10.9	**20.93**				0	10.9	**10.9**	10	
2	Ghonda	21.79	22.56	15.94	**60.29**			0	0	15.94	**15.94**	20	
3	Seelam Pur		10.08	21.39	**31.47**				0	10.9	**10.9**	10	
4	Dwarkapuri			15.46	**15.46**					15.46	**15.46**	8	
5	Nandnagri	20.16		16.35	**36.51**			20.16		10.9	**31.06**	4	
6	Yamuna Vihar			10.8	**10.8**					1.8	**1.8**	5	
7	East of Loni Road			10.8	**10.8**					10.8	**10.8**	3	
8	Shastri Park			10.9	**10.9**					5.45	**5.45**	10	
9	Karawal Nagar			5.4	**5.4**					5.4	**5.4**	9	
	Total				**202.6**	214	64	**20.16**	**0**	**87.55**	**107.7**	**79**	
12	**Geeta Colony**										**0**		
1	Geeta Colony			10.49	**10.49**					10.49	**10.49**	12	
2	Kanti Nagar			10.9	**10.9**					10.9	**10.9**	8	
3	Kailash Nagar			15.48	**15.48**					5.45	**5.45**	12	
4	Seelam Pur										**0**		
5	Shakar Pur										**0**	6	
	Total				**36.87**	105	45	**0**	**0**	**26.84**	**26.84**	**32**	
13	**Gazipur S/stn**	40		5.04	**45.04**			40		5.04	**45.04**		
1	Dallupura	21.79		10.9	**32.69**			0		10.9	**10.9**	2	
2	Vivek Vihar			10.57	**10.57**					5.03	**5.03**	18	
3	GT Road			10.85	**10.85**					10.85	**10.85**	7	
4	Kondli	20.16		10.85	**31.01**			0		5.45	**5.45**	3	
5	MVR-I			10.9	**10.9**					0	**0**		
6	MVR-II	20.16		10.9	**31.06**			0		10.9	**10.9**		
7	PPG Ind. Area			10.06	**10.06**					0	**0**	2	
	Total				**182.2**	164	0	**40**	**0**	**48.17**	**88.17**	**32**	
14	**Patparganj S/stn**	40	20	5.04	**65.04**			40	10	5.04	**55.04**		
1	GH-I	19.89		10.45	**30.34**			0		10.45	**10.45**	2	
2	GH-II	20.09		10.9	**30.99**			0		0	**0**	3	
3	CBD		10.03	15.48	**25.51**				0	15.48	**15.48**	9	
4	Guru Angad Nagar			15.49	**15.49**					15.49	**15.49**	11	
5	Karkadooma		10.08	10.44	**20.52**				10.08	10.44	**20.52**	6	
6	Preet Vihar			10.07	**10.07**					5.04	**5.04**	9	

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	TOTAL	MW	MVAR	66KV	33kV	11kV	TOTAL	MW	MVAR
7	CBD-II			7.2	**7.2**					0	**0**	4	
8	Shakarpur			5.4	**5.4**					3.6	**3.6**		
9	Jhilmil			9	**9**					0	**0**	5	
10	Dilshad Garden	20.16		16.35	**36.51**			0		0	**0**	4	
11	Khichripur	21.79		10.49	**32.28**			0		5.45	**5.45**	7	
12	Mother Dairy										**0**		
13	Scope Building										**0**		
14	Vivek Vihar										**0**		
15	Akhardham			14.4	**14.4**					0	**0**		
	Total				**302.8**	169	-25	**40**	**20.08**	**70.99**	**131.1**	**60**	
15	**Najafgarh S/stn**	60		5.04	**65.04**			60		5.04	**65.04**		
1	A4 Paschim Vihar			10.9	**10.9**					5.45	**5.45**	6	
2	Nangloi	21.73		15.85	**37.58**			21.73		10.85	**32.58**	39	
3	Nangloi W/W	20.89		5.45	**26.34**			20.89		5.45	**26.34**	3	
4	Pankha Road			15.69	**15.69**					15.69	**15.69**	6	
5	Jaffarpur			15.49	**15.49**					0	**0**	3	
7	Inst. Area Janakpuri			15.9	**15.9**					5.45	**5.45**		
8	Paschimpuri		10.05	15.53	**25.58**				0	5.04	**5.04**	9	
9	Paschim Vihar	41.83		15.44	**57.27**			20.1		15.44	**35.54**	36	
10	Mukherjee Park			15.49	**15.49**					15.49	**15.49**	11	
11	Udyog Nagar			10.04	**10.04**					0	**0**	8	
12	Choukhandi			10.08	**10.08**					0	**0**	7	
	Total				**305.4**	322	38	**122.7**	**0**	**83.9**	**206.6**	**128**	
16	**Pappankalan-I S/stn**	20		5.04	**25.04**			20		5.04	**25.04**		
1	Bindapur	21.73		15.9	**37.63**			0		5	**5**	6	
2	Bodella-I	20.1		15.9	**36**			20.1		15.9	**36**	6	
3	Bodella-II	21.73		14.53	**36.26**			0		14.53	**14.53**	6	
4	DC Janakpuri			10.04	**10.04**					10.04	**10.04**	8	
5	G-2 PPK			10.9	**10.9**					10.9	**10.9**	3	
6	G-5 PPK			15.53	**15.53**					15.53	**15.53**	6	
7	G-6 PPK			5.45	**5.45**					5.45	**5.45**	5	
8	G-15 PPK			10.08	**10.08**					10.08	**10.08**		
9	Harinagar	21.18		10.49	**31.67**			0		10.49	**10.49**	6	
	Total				**218.6**	334	38	**40.1**	**0**	**103**	**143.1**	**46**	
17	**BBMB Rohtak Road**										**0**		
1	S.B. Mill			10.08	**10.08**					0	**0**	3	
2	GTK Road				**0**						**0**		
3	Ram Pura			12.24	**12.24**					12.24	**12.24**	7	
4	Rohtak Road			10.08	**10.08**					5.04	**5.04**	2	
5	Vishal			5.4	**5.4**					5.4	**5.4**	13	
6	Madipur			10.43	**10.43**					5	**5**	7	
7	Sudershan Park			10.08	**10.08**					0	**0**		
	Total				**58.31**	151	15	**0**	**0**	**27.68**	**27.68**	**32**	
18	**Shalimarbagh S/stn**		40	6	**46**				30	6	**36**		
1	S.G.T. Nagar			13.15	**13.15**					0	**0**		
2	Wazirpur-1			20.7	**20.7**					20.7	**20.7**	11	
3	Wazirpur-2			14.4	**14.4**					7.2	**7.2**	6	
4	Shalimarbagh										**0**		
5	Ashok Vihar			20.35	**20.35**					20.35	**20.35**	11	
6	Rani Bagh			14.4	**14.4**					7.2	**7.2**	3	

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	TOTAL	MW	MVAR	66KV	33kV	11kV	TOTAL	MW	MVAR
7	Haiderpur			13.15	**13.15**					13.15	**13.15**	6	
8	SMB FC			7.2	**7.2**					7.2	**7.2**		
9	SMB KHOSLA			7.2	**7.2**					7.2	**7.2**	4	
	Total				**156.6**	185	4	**0**	**30**	**89**	**119**	**41**	
19	**Subzimandi S/stn**			6	**6**					6	**6**		
1	Shakti Nagar			5.04	**5.04**					5.04	**5.04**	4	
2	Gulabibagh			7.2	**7.2**					7.2	**7.2**	4	
3	Shahzadabagh			19.44	**19.44**					19.44	**19.44**	10	
4	Tripolia			14.4	**14.4**					7.2	**7.2**	4	
5	B. G. Road										**0**	3	
	Total				**52.08**	105	17	**0**	**0**	**44.88**	**44.88**	**25**	
20	**Narela S/stn**	40		5.04	**45.04**			40		5.04	**45.04**		
1	A-7 Narela			14.4	**14.4**					14.4	**14.4**		
2	AIR Kham pur			13.15	**13.15**					0	**0**	7	
3	Badli	20		5.95	**25.95**			20		5.95	**25.95**	21	
4	DSIDC Narela	20		5.95	**25.95**			20		5.95	**25.95**	14	
5	DSIDC Narela-2			14.4	**14.4**					0	**0**		
6	Jahangirpuri	20	20	5.95	**45.95**			20	10	5.95	**35.95**	27	
	Total				**184.8**	203	-38	**100**	**10**	**37.29**	**147.3**	**69**	
21	**Gopalpur S/stn**		30	5.04	**35.04**				20	5.04	**25.04**		
1	Azad Pur			21.6	**21.6**					21.6	**21.6**	12	
2	Hudson Lane			5.95	**5.95**					5.95	**5.95**	4	
3	Wazirabad			7.2	**7.2**					7.2	**7.2**	3	
4	Indra Vihar			5.95	**5.95**					5.95	**5.95**		
5	Tri Nagar			14.4	**14.4**					7.2	**7.2**	3	
6	GTK Road			13.15	**13.15**					7.2	**7.2**	3	
7	Jahangirpuri				**0**						**0**		
8	Civil lines			6	**6**					6	**6**		
9	DIFR			7.2	**7.2**					7.2	**7.2**		
10	Delhi Univ.			7.2	**7.2**					7.2	**7.2**		
11	Tiggipur			14.4	**14.4**					14.4	**14.4**		
	Total				**138.1**	209	20				**114.9**	**25**	
22	**Rohini S/stn**	40		6	**46**			40		6	**46**		
1	Rohini Sec-24 Ckt-I			14.4	**14.4**					14.4	**14.4**	9	
2	Rohini Sec-24 Ckt-II	20		14.4	**34.4**			20		0	**20**	9	
3	Rohini-1			7.2	**7.2**					7.2	**7.2**	3	
4	Rohini-2			13.15	**13.15**					5.95	**5.95**	7	
5	Rohini-3			5.95	**5.95**					5.95	**5.95**	4	
6	Rohini-4			13.15	**13.15**					13.15	**13.15**	9	
7	Rohini-5			13.15	**13.15**					13.15	**13.15**	22	
8	Rohini-6	20		5.95	**25.95**			20		5.95	**25.95**	3	
9	Mangolpuri-1			20.35	**20.35**					5.95	**5.95**	3	
10	Mangolpuri-2	20		5.04	**25.04**			20		0	**20**	13	
11	Saraswati Garden			10.08	**10.08**					5.04	**5.04**	4	
12	Pitam Pura-1	20		12.24	**32.24**			20		5.04	**25.04**	14	
13	Pitam Pura-2			12.24	**12.24**					0	**0**	0	
14	Pitam Pura-3			7.2	**7.2**					7.2	**7.2**	4	
15	Rohini DC-1			14.4	**14.4**					14.4	**14.4**		
	Total				**294.9**	317	21				**229.4**	**104**	

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	**TOTAL**	MW	MVAR	66KV	33kV	11kV	**TOTAL**	MW	MVAR
23	**Kanjhawala S/stn**	20		5.04	**25.04**			20		5.04	**25.04**		
1	Bawana Clear Water			14.4	**14.4**					7.2	**7.2**	3	
2	Pooth Khoord			7.2	**7.2**					7.2	**7.2**	3	
3	Ghevra			14.4	**14.4**					14.4	**14.4**		
	Total				**61.04**	58	-13				**53.84**	**6**	
24	**BAWANA S/stn**												
1	Bawana S/stn No. 6				**0**						**0**		
2	Bawana S/stn No. 7				**0**						**0**		
	Total				**0**	47	20				**0**		
25	**Kashmeregate S/stn**			5.04	**5.04**					5.04	**5.04**		
1	Civil lines			6	**6**					6	**6**	9	
2	Town Hall			8.64	**8.64**					8.64	**8.64**	8	
3	Fountain			5.45	**5.45**					5.45	**5.45**	4	
	Total				**25.13**	50	7				**25.13**	**21**	
26	**Pappankalan-II**												
1	DMRC-I												
2	DMRC-II												
	Total					99	12						
	TOTAL CAPACITY				**3636**	**4687**	**604**				**2502**	**1635**	

20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF JANUARY 2011

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	04.01.10	20.01	220/66KV 100MVA PR. TR.-II AT DSIDC BAWANA	04.01.10	23.19	TR. TRIPPED ON 30A, BUCHLOZ, 30G, 87.
02	05.01.11	12.05	220/33KV 100MVA PR. TR-II AT IP	05.01.11	12.07	TR. TRIPPED ON WITHOUT INDICATION.
03	07.01.11	03.42	220KV BAWANA – SHALIMAR BAGH CKT-II	07.01.11	03.51	CKT. TRIPPED ON DIST PROT `C' PHASE, 186A&B AT SHALIMAR BAGH AND ON DIST PROT `C' PHASE 186A AT BAWANA.
04	07.01.11	15.54	220KV BAWANA – SHALIMAR BAGH CKT-I	07.01.11	16.18	CKT. TRIPPED ON DIST PROT `A' PHASE, 186A&B AT SHALIMAR BAGH.
05	08.01.11	12.23	400KV MUNDKA – BAWANA CKT-I & II	08.01.11	12.46	BOTH CKT. TRIPPED ON 86A&B, AUTO RECLOSE BLOCK SIGNAL AT MUNDKA.
06	08.01.11	14.44	220KV SARITA VIHAR – PRAGATI CKT.	08.01.11	15.05	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I AT PRAGATI AND ON DIST PROT `C' PHASE ZONE-I AT SARITA VIHAR.
07	08.01.11	14.44	220/66KV 160MVA PR. TR.-II AT PRAGATI	08.01.11	16.50	TR. TRIPPED ON 86, 87
08	08.01.11	14.46	220/66KV 160MVA PR. TR.-I AT PRAGATI	08.01.11	15.14	TR. TRIPPED ON 86.
09	08.01.11	17.19	220/66KV 160MVA PR. TR.-I & II AT PRAGATI	08.01.11	19.10	BOTH TRANSFORMERS TRIPPED ON 30F, 86 AT PRAGATI AND ON E/F, O/C AT GT END. TR.-I & II CHARGED AT 17.43HRS. AND 19.10HRS RESPECTIVELY.
10	08.01.11	21.09	220/66KV 160MVA PR. TR.-I & II AT PRAGATI	08.01.11	21.52	TR-I TRIPPED ON INSTANTANEOUS E/F, 164, 86, REF LV SIDE AND TR.-II TRIPPED ON 86, 87
11	11.01.11	23.35	220KV IP – PATPAR GANJ CKT-II	11.01.11	23.55	CKT. TRIPPED ON 186 AT IP.
12	12.01.11	14.27	220KV MANDOLA – NARELA CKT-I & II	12.01.11	14.32	SUPPLY FAILURE FROM MANDOLA. NO TRIPPING AT NARELA.
13	12.01.11	14.27	220KV MANDOLA – GOPALPUR CKT-I & II	12.01.11	16.28	SUPPLY FAILURE FROM MANDOLA. NO TRIPPING AT GOPALPUR.
14	15.01.11	06.30	220KV BAMNAULI – NARAINA CKT-I	15.01.11	08.20	CKT. TRIPPED ON CB LOCK OUT, TRIP CKT FAULTY, LOW AIR PRESSURE.
15	15.01.11	16.20	220KV GOPALPUR – SUBZI MANDI CKT-II	15.01.11	16.46	CKT. TRIPPED ON MAIN-I DIST PROT `RYB' PHASE, MAIN-II `Y' PHASE AT GOPALPUR. NO TRIPPING AT SUBZI MANDI.
16	20.01.11	04.12	220KV BAWANA – KANJHAWALA CKT.	20.01.11	16.20	CKT. TRIPPED ON DIST PROT AT KANJHAWALA. Y' PHASE POLE BREAKER OF 220KV KANJHAWALA CKT DAMAGED AT BAWANA.
17	20.01.10	05.05	220/33KV 100MVA PR. TR.-III AT SHALIMAR BAGH	20.01.11	09.34	TR. TRIPPED ON 86.
18	20.01.11	07.50	220KV BAWANA – ROHINI CKT	20.01.11	08.00	NO TRIPPING AT ROHINI. `Y' PHASE POLE BREAKER OF 220KV KANJHAWALA CKT DAMAGED AT BAWANA.
19	20.01.11	18.02	220KV PATPARGANJ – GEETA COLONY CKT-II	20.01.11	18.20	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AT GEETA COLONY AND ON DIST PROT `ABC' PHASE ZONE-I AT PATPARGANJ.
20	20.01.11	21.32	220KV PATPARGANJ – GEETA COLONY CKT-I	20.01.11	21.51	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AT GEETA COLONY AND ON DIST PROT `ABC' PHASE AT PATPARGANJ

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
21	21.01.11	11.00	220/33KV 100MVA PR. TR.-III AT SHALIMAR BAGH	21.01.11	13.16	TR. TRIPPED ON OVERFLUX, 86
22	22.01.11	17.50	220/66KV 160MVA PR. TR.-II AT PRAGATI	22.01.11	20.40	TR. TRIPPED ON 86, 87.
23	22.01.11	17.58	220KV MAHARANI BAGH – LODHI ROAD CKT-I & II	22.01.11	18.09	BOTH CKT. TRIPPED AT LODHI ROAD END WHILE CLOSING 220KV BUS COUPLER.
24	23.01.11	11.10	220/66KV 160MVA PR. TR.-I AT PRAGATI	23.01.11	11.42	TR. TRIPPED ON 30A, BUCHLOZ, 186.
25	28.01.11	09.35	220KV BAMNAULI – DIAL CKT-I	28.01.11	09.45	CKT. TRIPPED ON GENERAL TRIP DIFFERENTIAL `RYB' AT DIAL NO TRIPPING AT BAMNAULI.
26	28.01.11	16.46	400KV MANDOLA – BAWANA CKT-II	28.01.11	17.30	BREAKER NO. 417 OF THE CKT. TRIPPED ON CKT COIL FAILTY, CB AIR PRESSURE LOW, DC-I FAIL, 86A&B. BREAKER NO.418 TRIPPED ON 86A&B, AUTO RECLOSE 186 `Y' AT MANDOLA.
27	31.01.11	16.46	220KV GEETA COLONY – PATPARGANJ CKT-II	31.01.11	17.05	CKT. TRIPPED ON DIST PROT ZONE-I, 186 AT PATPARGANJ AND ON DIST PROT `ABC' PHASE ZONE-II AT GEETA COLONY.

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF JANUARY 2011

NIL